

Roberto Hbler

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

59
papers

841
citations

18
h-index

26
g-index

62
ext. papers

951
ext. citations

3
avg. IF

4.13
L-index

#	Paper	IF	Citations
59	Wear and corrosion protection of 316-L femoral implants by deposition of thin films. <i>Surface and Coatings Technology</i> , 2001 , 142-144, 1078-1083	4.4	59
58	Plasma and ion-beam-assisted deposition of multilayers for tribological and corrosion protection. <i>Surface and Coatings Technology</i> , 1993 , 60, 561-565	4.4	51
57	Effect of calcium carbonate on low carbon steel corrosion behavior in saline CO ₂ high pressure environments. <i>Applied Surface Science</i> , 2015 , 359, 143-152	6.7	44
56	DLC film properties obtained by a low cost and modified pulsed-DC discharge. <i>Thin Solid Films</i> , 2007 , 516, 272-276	2.2	39
55	Effects of low-level laser therapy on bone formed after distraction osteogenesis. <i>Lasers in Medical Science</i> , 2010 , 25, 213-9	3.1	37
54	Corrosion behavior of steel coated with thin film TiN/Ti composites. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1993 , 11, 451-453	2.9	36
53	Effect of bismuth oxide on white mineral trioxide aggregate: chemical characterization and physical properties. <i>International Endodontic Journal</i> , 2014 , 47, 520-33	5.4	35
52	Hardness and corrosion protection enhancement behaviour of surgical implant surfaces treated with ceramic thin films. <i>Surface and Coatings Technology</i> , 1999 , 116-119, 1111-1115	4.4	30
51	Low-level laser therapy for implants without initial stability. <i>Photomedicine and Laser Surgery</i> , 2010 , 28, 365-9		29
50	The dependence of hardness and corrosion protection power of ion- beam-assisted deposition TiN coatings on the ion beam impact angle. <i>Surface and Coatings Technology</i> , 1993 , 60, 549-555	4.4	27
49	Freeze-casting for PLGA/carbonated apatite composite scaffolds: Structure and properties. <i>Materials Science and Engineering C</i> , 2017 , 77, 731-738	8.3	26
48	Antibacterial potential associated with drug-delivery built TiO nanotubes in biomedical implants. <i>AMB Express</i> , 2019 , 9, 51	4.1	26
47	Electrodeposition of diamond-like carbon films on titanium alloy using organic liquids: Corrosion and wear resistance. <i>Applied Surface Science</i> , 2012 , 263, 18-24	6.7	22
46	Structure, composition, and mechanical characterization of dc sputtered TiN-MoS ₂ nanocomposite thin films. <i>Surface and Coatings Technology</i> , 2011 , 205, 3810-3815	4.4	22
45	Characterisation of gradient interfaces in thin film multilayers used to protect orthopaedic implants. <i>Surface and Coatings Technology</i> , 1999 , 116-119, 1116-1122	4.4	22
44	Transition metal nitrides thin films deposition using a dynamically controlled magnetron sputtering apparatus. <i>Surface and Coatings Technology</i> , 2002 , 158-159, 680-684	4.4	20
43	Deposition of hard and adherent diamond-like carbon films inside steel tubes using a pulsed-DC discharge. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 3891-7	1.3	18

42	Application of TiO ₂ Nanotubes as a Drug Delivery System for Biomedical Implants: A Critical Overview. <i>ChemistrySelect</i> , 2018 , 3, 11180-11189	1.8	18
41	Polyaniline/Graphite Nanocomposites: Synthesis and Characterization. <i>Macromolecular Symposia</i> , 2011 , 299-300, 74-80	0.8	17
40	The influence of mineralogical, chemical and physical properties on grindability of commercial clinkers with high MgO level. <i>Cement and Concrete Research</i> , 2008 , 38, 1119-1125	10.3	16
39	Osteoblastic Cell Behavior and Early Bacterial Adhesion on Macro-, Micro-, and Nanostructured Titanium Surfaces for Biomedical Implant Applications. <i>International Journal of Oral and Maxillofacial Implants</i> , 2020 , 35, 773-781	2.8	16
38	Influence of titanium and zirconia modified surfaces for rapid healing on adhesion and biofilm formation of Staphylococcus epidermidis. <i>Archives of Oral Biology</i> , 2020 , 117, 104824	2.8	14
37	Deposition and characterization of non-isostructural (Ti _{0.7} Al _{0.3} N)/(Ti _{0.3} Al _{0.7} N) multilayers. <i>Surface and Coatings Technology</i> , 2009 , 203, 1176-1181	4.4	13
36	Metallic thin film thickness determination using electron probe microanalysis. <i>X-Ray Spectrometry</i> , 2001 , 30, 253-259	0.9	13
35	Investigation of microstructure and properties of magnetron sputtered Zr-Si-N thin films with different Si content. <i>Surface and Coatings Technology</i> , 2018 , 353, 355-363	4.4	12
34	Osseointegration of atmospheric plasma-sprayed titanium implants: Influence of the native oxide layer. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 30-6	5.4	11
33	A preliminary study of hardness and modulus of elasticity in sheep mandibles submitted to distraction osteogenesis and low-level laser therapy. <i>Medicina Oral, Patologia Oral Y Cirugia Bucal</i> , 2012 , 17, e102-7	2.6	11
32	Strong dependence of the Fe thin-film magnetic anisotropy on the Si(111) substrate preparation. <i>Journal of Applied Physics</i> , 2003 , 94, 1490-1494	2.5	11
31	A bone preservation protocol that enables evaluation of osseointegration of implants with micro- and nanotextured surfaces. <i>Biotechnic and Histochemistry</i> , 2019 , 94, 261-270	1.8	11
30	Elasto-Plastic materials behavior evaluation according to different models applied in indentation hardness tests. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019 , 139, 134-139	4.6	10
29	Crystalline phases involved in the hydration of calcium silicate-based cements: Semi-quantitative Rietveld X-ray diffraction analysis. <i>Australian Endodontic Journal</i> , 2019 , 45, 26-32	1.7	10
28	Extension of hydrophilicity stability by reactive plasma treatment and wet storage on TiO nanotube surfaces for biomedical implant applications. <i>Journal of the Royal Society Interface</i> , 2020 , 17, 20200650	4.1	9
27	Structural and Mechanical Properties of Zr-Si-N Thin Films Prepared by Reactive Magnetron Sputtering. <i>Materials Research</i> , 2015 , 18, 30-34	1.5	9
26	Ion beam mixing of Ti _{100-x} N multilayers for tribological and corrosion protection. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 175-177, 630-636	1.2	9
25	TiN structural modifications induced by bias voltage in a new dynamic controlled magnetron sputtering apparatus. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 175-177, 626-629	1.2	9

24	Ion beam mixing of Al ₂ AlN multilayers for tribological and corrosion protection. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 80-81, 1415-1418	1.2	9
23	Effect of hafnium contaminant present in zirconium targets on sputter deposited ZrN thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020 , 462, 90-94	1.2	9
22	Influence of WS ₂ content on high temperature wear performance of magnetron sputtered TiN-WS _x thin films. <i>Ceramics International</i> , 2019 , 45, 19918-19924	5.1	7
21	Changes in the Young Modulus of hafnium oxide thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 365, 362-366	1.2	7
20	Microhardness characterization of superlattices formed by reactive magnetron sputtering and ion beam assisted deposition. <i>Surface and Coatings Technology</i> , 2002 , 158-159, 685-689	4.4	7
19	Self-drilling and self-tapping screws: an ultrastructural study. <i>Journal of Craniofacial Surgery</i> , 2010 , 21, 513-5	1.2	6
18	The energy dependence on microstructure of (Ti _{1-x} Al _x) nitrides deposited by dual ion beam sputtering. <i>Surface and Coatings Technology</i> , 1999 , 116-119, 969-972	4.4	6
17	Diphosphonate immobilization on hydroxyapatite-coated titanium--method description. <i>Implant Dentistry</i> , 2013 , 22, 356-9	2.4	4
16	Ion beam mixing of Fe/Al multilayers: a CEMS study. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 80-81, 436-441	1.2	4
15	NRA and RBS analyses of silicon, aluminium and iron nitride thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1992 , 64, 756-759	1.2	3
14	Effect of Recombinant Human Growth Hormone on Osseointegration of Titanium Implants: A Histologic and Biomechanical Study in Rabbits. <i>Journal of Oral Implantology</i> , 2015 , 41, e102-9	1.2	2
13	Tuning the Crystalline Structure and Properties of TiO _x Thin Films Deposited by DC Reactive Magnetron Sputtering by Adjusting the Ar/O ₂ Ratio. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 8967-8974	1.3	2
12	Use of ion-assisted techniques for determining the structure of TiO ₂ nanotubes. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 365, 3-7	1.2	2
11	A new and simple ion source for ion beam assisted deposition of thin films. <i>Physica Status Solidi A</i> , 1991 , 127, K19-K23		2
10	Composition and magnetic properties of Fe/Fe x N thin film multilayers. <i>Applied Physics A: Solids and Surfaces</i> , 1992 , 54, 437-441		2
9	IBAD growing of magnetic iron nitride thin films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1993 , 80-81, 1392-1396	1.2	2
8	Study of mechanical degradation of UHMWPE acetabular components due to clinical X-ray procedures. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 1659-63	4.5	1
7	Microhardness characterization of multilayers modified by ion beam mixing. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001 , 175-177, 620-625	1.2	1

6	The growth of magnetic FeN thin films under ion bombardment. <i>Radiation Effects and Defects in Solids</i> , 1992 , 124, 271-279	0.9	1
5	Interrelation Among Morphology, Mechanical Properties and Oxidation Behavior of Nb _x Al _y N _z Thin Films. <i>Materials Research</i> , 2019 , 22,	1.5	1
4	Influence of saliva interaction on surface properties manufactured for rapid osseointegration in dental implants. <i>Biofouling</i> , 2021 , 37, 757-766	3.3	0
3	Effect of high pressure and high temperature on the mechanical behavior of diamond coated WC ₁₆ . <i>Surface and Coatings Technology</i> , 2009 , 203, 3344-3347	4.4	
2	DESEMPENHO FOTOELETROQUÍMICO DE NANOESTRUTURAS DE NIOBIO OBTENIDAS POR ANODIZAÇÃO: EFEITO DE LA CONCENTRACIÓN DE GLICEROL / DESEMPENHO FOTOELETROQUÍMICO DAS NANOESTRUTURAS DE NIOBIO OBTIDAS POR ANODIZAÇÃO: EFEITO DA CONCENTRAÇÃO DE GLICEROL. <i>Brazilian Journal of Development</i> , 2020 , 6, 73586-73597	0	
1	Investigation on Different TiCn Duplex Treatments Applied to Cold Work Tool Steel for Surface Properties Improvement. <i>Journal of Materials Engineering and Performance</i> , 2021 , 30, 4445-4457	1.6	