

Luis Acg Cunha

List of Publications by Year in descending order

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78
papers

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257450

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78
all docs

78
docs citations

78
times ranked

1812
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure of CrN coatings produced by PVD techniques. Thin Solid Films, 1999, 355-356, 465-471.	1.8	127
2	Corrosion of CrN and TiAlN coatings in chloride-containing atmospheres. Surface and Coatings Technology, 1999, 116-119, 1152-1160.	4.8	102
3	Characterisation of chromium nitride films produced by PVD techniques. Thin Solid Films, 2001, 398-399, 501-506.	1.8	98
4	Structural, electrical, optical, and mechanical characterizations of decorative ZrOxNy thin films. Journal of Applied Physics, 2005, 98, 023715.	2.5	87
5	Residual stress, surface defects and corrosion resistance of CrN hard coatings. Surface and Coatings Technology, 1999, 111, 158-162.	4.8	84
6	Tuning of the surface plasmon resonance in TiO ₂ /Au thin films grown by magnetron sputtering: The effect of thermal annealing. Journal of Applied Physics, 2011, 109, .	2.5	74
7	Corrosion of TiN, (TiAl)N and CrN hard coatings produced by magnetron sputtering. Thin Solid Films, 1998, 317, 351-355.	1.8	67
8	Influence of the chemical and electronic structure on the electrical behavior of zirconium oxynitride films. Journal of Applied Physics, 2008, 103, .	2.5	66
9	Property change in ZrNxOy thin films: effect of the oxygen fraction and bias voltage. Thin Solid Films, 2004, 469-470, 11-17.	1.8	65
10	Corrosion resistance of multilayer coatings deposited by PVD techniques onto the brass substrate. Journal of Materials Processing Technology, 2005, 164-165, 816-821.	6.3	54
11	Corrosion resistance of ZrNxOy thin films obtained by rf reactive magnetron sputtering. Thin Solid Films, 2004, 469-470, 274-281.	1.8	52
12	Performance of chromium nitride and titanium nitride coatings during plastic injection moulding. Surface and Coatings Technology, 2002, 153, 160-165.	4.8	51
13	The influence of annealing treatments on the properties of Ag:TiO ₂ nanocomposite films prepared by magnetron sputtering. Applied Surface Science, 2012, 258, 4028-4034.	6.1	49
14	Structural evolution in ZrNxOy thin films as a function of temperature. Surface and Coatings Technology, 2006, 200, 2917-2922.	4.8	46
15	Nanoscale color control of TiO ₂ films with embedded Au nanoparticles. Materials Letters, 2010, 64, 2624-2626.	2.6	45
16	Development of new decorative coatings based on gold nanoparticles dispersed in an amorphous TiO ₂ dielectric matrix. Surface and Coatings Technology, 2010, 204, 1569-1575.	4.8	44
17	Functional and optical properties of Au:TiO ₂ nanocomposite films: The influence of thermal annealing. Applied Surface Science, 2010, 256, 6536-6542.	6.1	43
18	Raman spectra and structural analysis in ZrOxNy thin films. Thin Solid Films, 2006, 515, 1132-1137.	1.8	38

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19	Tantalum Oxynitride Thin Films: Assessment of the Photocatalytic Efficiency and Antimicrobial Capacity. <i>Nanomaterials</i> , 2019, 9, 476.	4.1	38
20	Performance of chromium nitride based coatings under plastic processing conditions. <i>Surface and Coatings Technology</i> , 2000, 133-134, 61-67.	4.8	37
21	Properties of tantalum oxynitride thin films produced by magnetron sputtering: The influence of processing parameters. <i>Vacuum</i> , 2013, 98, 63-69.	3.5	33
22	Tribocorrosion behaviour of ZrOxNy thin films for decorative applications. <i>Surface and Coatings Technology</i> , 2006, 200, 6634-6639.	4.8	32
23	Structural stability of decorative ZrNxOy thin films. <i>Surface and Coatings Technology</i> , 2005, 200, 748-752.	4.8	27
24	Development of dark Ti(C,O,N) coatings prepared by reactive sputtering. <i>Surface and Coatings Technology</i> , 2008, 203, 804-807.	4.8	24
25	ZrO _x N _y decorative thin films prepared by the reactive gas pulsing process. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 195501.	2.8	24
26	Influence of composition and structural properties in the tribological behaviour of magnetron sputtered Ti-Si-C nanostructured thin films, prepared at low temperature. <i>Wear</i> , 2010, 268, 552-557.	3.1	24
27	Zr-O-N coatings for decorative purposes: Study of the system stability by exploration of the deposition parameter space. <i>Surface and Coatings Technology</i> , 2018, 343, 30-37.	4.8	23
28	Properties of MoNxOy thin films as a function of the N/O ratio. <i>Thin Solid Films</i> , 2006, 494, 201-206.	1.8	22
29	Physical and morphological characterization of reactively magnetron sputtered TiN films. <i>Thin Solid Films</i> , 2002, 420-421, 421-428.	1.8	21
30	The influence of structure changes in the properties of TiCxOy decorative thin films. <i>Thin Solid Films</i> , 2007, 515, 5424-5429.	1.8	21
31	Structure and chemical bonds in reactively sputtered black Ti-Si-N-O thin films. <i>Thin Solid Films</i> , 2011, 520, 144-151.	1.8	20
32	Multifunctional Ti-Me (Me=Al, Cu) thin film systems for biomedical sensing devices. <i>Vacuum</i> , 2015, 122, 353-359.	3.5	20
33	Biological behaviour of thin films consisting of Au nanoparticles dispersed in a TiO2 dielectric matrix. <i>Vacuum</i> , 2015, 122, 360-368.	3.5	20
34	Optical properties of zirconium oxynitride films: The effect of composition, electronic and crystalline structures. <i>Applied Surface Science</i> , 2015, 358, 660-669.	6.1	19
35	Effect of thermal treatments on the structure of MoNxOy thin films. <i>Vacuum</i> , 2008, 82, 1428-1432.	3.5	18
36	Raman analysis of Si-Si-N films grown by reactive magnetron sputtering. <i>Thin Solid Films</i> , 2004, 469-470, 410-415.	1.8	17

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37	The effect of bombarding conditions on the properties of multifunctional TiO ₂ thin films grown by magnetron sputtering. <i>Surface and Coatings Technology</i> , 2007, 202, 946-951.	4.8	17
38	Effect of nitrogen gas flow on amorphous Si ₃ N ₄ films produced by PVD techniques. <i>Surface and Coatings Technology</i> , 2003, 174-175, 324-330.	4.8	16
39	Structural and optical studies of Au doped titanium oxide films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2012, 272, 61-65.	1.4	16
40	Ultra-Short Pulse HiPIMS: A Strategy to Suppress Arcing during Reactive Deposition of SiO ₂ Thin Films with Enhanced Mechanical and Optical Properties. <i>Coatings</i> , 2020, 10, 633.	2.6	16
41	Influence of silver doping on physical properties of sprayed In ₂ S ₃ films for solar cells application. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 4568-4580.	2.2	16
42	Structure dependent resistivity and dielectric characteristics of tantalum oxynitride thin films produced by magnetron sputtering. <i>Applied Surface Science</i> , 2015, 354, 298-305.	6.1	14
43	Functional behaviour of TiO ₂ films doped with noble metals. <i>Surface Engineering</i> , 2016, 32, 554-561.	2.2	14
44	Development of tantalum oxynitride thin films produced by PVD: Study of structural stability. <i>Applied Surface Science</i> , 2013, 285, 19-26.	6.1	13
45	Tantalum oxynitride thin films: Mechanical properties and wear behavior dependence on growth conditions. <i>Surface and Coatings Technology</i> , 2014, 258, 587-596.	4.8	13
46	Concentrated solar energy used for sintering magnesium titanates for electronic applications. <i>Applied Surface Science</i> , 2018, 438, 59-65.	6.1	13
47	Au-WO ₃ Nanocomposite Coatings for Localized Surface Plasmon Resonance Sensing. <i>Materials</i> , 2020, 13, 246.	2.9	12
48	Structural, mechanical and piezoelectric properties of polycrystalline AlN films sputtered on titanium bottom electrodes. <i>Applied Surface Science</i> , 2015, 354, 267-278.	6.1	11
49	Electrical transport of sprayed In ₂ S ₃ :Ag thin films. <i>Materials Science in Semiconductor Processing</i> , 2020, 114, 105080.	4.0	11
50	Structural, chemical, optical and mechanical properties of Au doped AlN sputtered coatings. <i>Surface and Coatings Technology</i> , 2014, 255, 130-139.	4.8	9
51	Deposition temperature influence on the wear behaviour of carbon-based coatings deposited on hardened steel. <i>Applied Surface Science</i> , 2019, 475, 762-773.	6.1	9
52	The effect of vacuum and air annealing in the physical characteristics and photocatalytic efficiency of In ₂ S ₃ :Ag thin films produced by spray pyrolysis. <i>Materials Chemistry and Physics</i> , 2021, 270, 124838.	4.0	9
53	Compositional and structural changes in ZrO _x N _y films depending on growth condition. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2006, 249, 458-461.	1.4	8
54	TiO ₂ -SiO ₂ -C Thin Films Produced by Magnetron Sputtering: Correlation Between Physical Properties, Mechanical Properties and Tribological Behavior. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 2926-2932.	0.9	8

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55	Surface Plasmon Resonance Effect on the Optical Properties of TiO ₂ Doped by Noble Metals Nanoparticles. <i>Journal of Nano Research</i> , 0, 18-19, 177-185.	0.8	8
56	Influence of the Physical Properties on the Antibacterial and Photocatalytic Behavior of Ag-Doped Indium Sulfide Film Deposited by Spray Pyrolysis. <i>Coatings</i> , 2021, 11, 370.	2.6	8
57	Study on the Thermal Stability of Ti(C,O,N) Decorative Coatings. <i>Plasma Processes and Polymers</i> , 2009, 6, S755.	3.0	7
58	Composition and structure variation for magnetron sputtered tantalum oxynitride thin films, as function of deposition parameters. <i>Applied Surface Science</i> , 2015, 358, 508-517.	6.1	7
59	Optical and microstructural properties of Au alloyed Al ₂ O ₃ sputter deposited coatings. <i>Thin Solid Films</i> , 2016, 598, 65-71.	1.8	7
60	Thermal stability of Zr-O-N(Ti) thin films prepared by magnetron sputtering. <i>Vacuum</i> , 2018, 151, 148-155.	3.5	7
61	Development of a statistical method to help evaluating the transparency/opacity of decorative thin films. <i>Applied Surface Science</i> , 2018, 438, 51-58.	6.1	7
62	Amorphous AlN films grown by ALD from trimethylaluminum and monomethylhydrazine. <i>Dalton Transactions</i> , 2021, 50, 15062-15070.	3.3	7
63	Tribological characterisation of magnetron sputtered Ti(C, O, N) thin films. <i>International Journal of Materials and Product Technology</i> , 2010, 39, 186.	0.2	6
64	Friction and wear behaviours of Ti(C,O,N) dark decorative coatings. <i>Tribology International</i> , 2011, 44, 820-828.	5.9	6
65	Tantalum-Titanium Oxynitride Thin Films Deposited by DC Reactive Magnetron Co-Sputtering: Mechanical, Optical, and Electrical Characterization. <i>Coatings</i> , 2022, 12, 36.	2.6	6
66	The Role of Modulated IR Radiometry Measurements in the Characterization of Zr _{0.5} O _{0.5} N Thin Films. <i>Plasma Processes and Polymers</i> , 2009, 6, S760.	3.0	5
67	Si Doped and Un-Doped CrN Thin Films Produced by Magnetron Sputtering: Structural and Mechanical Properties. <i>Journal of Nano Research</i> , 0, 18-19, 201-211.	0.8	5
68	Electrical Behavior and Photocatalytic Activity of Ag-Doped In ₂ S ₃ Thin Films. <i>Journal of Electronic Materials</i> , 2021, 50, 3739-3747.	2.2	4
69	Deposition of Ti-Zr-O-N films by reactive magnetron sputtering of Zr target with Ti ribbons. <i>Surface and Coatings Technology</i> , 2021, 409, 126737.	4.8	3
70	Effect of substrate bias voltage on amorphous Si ₃ N ₄ films produced by PVD techniques. <i>Thin Solid Films</i> , 2004, 447-448, 436-442.	1.8	1
71	Nanostructured Materials: Formation, Characterization, and Properties—Latest Advances in 1D, 2D, and 3D Nanostructures. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-2.	1.8	1
72	In-situ XRD vs ex-situ vacuum annealing of tantalum oxynitride thin films: Assessments on the structural evolution. <i>Applied Surface Science</i> , 2018, 438, 14-19.	6.1	1

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73	Evaluation of thermal properties of thin films by IR radiometry using a comprehensive set of Zr-O-N thin films. Applied Surface Science, 2019, 498, 143666.	6.1	1
74	Functionalization of Orthodontic Alloys with DLC Coatings. , 2019, , .		1
75	Dataset for additional information on the evaluation of thermal properties of thin films by IR radiometry using a comprehensive set of Zr-O-N thin films. Data in Brief, 2020, 29, 105291.	1.0	1
76	Properties of PVD Coatings on a Brass Substrate. Materials Science Forum, 2003, 437-438, 199-202.	0.3	0
77	Structure and Chemical Bonds in Black Ti(C, N, O) Thin Films. , 2010, , .		0
78	Corrosion Behavior of Titanium Oxynitrided by Diffusion and Magnetron Sputtering Methods in Physiological Solution. Materials Performance and Characterization, 2017, 6, 594-606.	0.3	0