Luis Acg Cunha

List of Publications by Year
in descending order

78 papers	1,956 citations	257450 24 h-index	265206 42 g-index
78 all docs	78 docs citations	78 times ranked	1812 citing authors

#	Article	IF	Citations
1	Tantalum-Titanium Oxynitride Thin Films Deposited by DC Reactive Magnetron Co-Sputtering: Mechanical, Optical, and Electrical Characterization. Coatings, 2022, 12, 36.	2.6	6
2	Deposition of Ti-Zr-O-N films by reactive magnetron sputtering of Zr target with Ti ribbons. Surface and Coatings Technology, 2021, 409, 126737.	4.8	3
3	Amorphous AlN films grown by ALD from trimethylaluminum and monomethylhydrazine. Dalton Transactions, 2021, 50, 15062-15070.	3.3	7
4	Influence of silver doping on physical properties of sprayed In2S3 films for solar cells application. Journal of Materials Science: Materials in Electronics, 2021, 32, 4568-4580.	2.2	16
5	Influence of the Physical Properties on the Antibacterial and Photocatalytic Behavior of Ag-Doped Indium Sulfide Film Deposited by Spray Pyrolysis. Coatings, 2021, 11, 370.	2.6	8
6	Electrical Behavior and Photocatalytic Activity of Ag-Doped In2S3 Thin Films. Journal of Electronic Materials, 2021, 50, 3739-3747.	2.2	4
7	The effect of vacuum and air annealing in the physical characteristics and photocatalytic efficiency of In2S3:Ag thin films produced by spray pyrolysis. Materials Chemistry and Physics, 2021, 270, 124838.	4.0	9
8	Dataset for additional information on the evaluation of thermal properties of thin films by IR radiometry using a comprehensive set of Zrâ€"Oâ€"N thin films. Data in Brief, 2020, 29, 105291.	1.0	1
9	Ultra-Short Pulse HiPIMS: A Strategy to Suppress Arcing during Reactive Deposition of SiO2 Thin Films with Enhanced Mechanical and Optical Properties. Coatings, 2020, 10, 633.	2.6	16
10	Au-WO3 Nanocomposite Coatings for Localized Surface Plasmon Resonance Sensing. Materials, 2020, 13, 246.	2.9	12
11	Electrical transport of sprayed In2S3:Ag thin films. Materials Science in Semiconductor Processing, 2020, 114, 105080.	4.0	11
12	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
13	Tantalum Oxynitride Thin Films: Assessment of the Photocatalytic Efficiency and Antimicrobial Capacity. Nanomaterials, 2019, 9, 476.	4.1	38
14	Functionalization of Orthodontic Alloys with DLC Coatings. , 2019, , .		1
15	Deposition temperature influence on the wear behaviour of carbon-based coatings deposited on hardened steel. Applied Surface Science, 2019, 475, 762-773.	6.1	9
16	Thermal stability of Zr-O-N(:Ti) thin films prepared by magnetron sputtering. Vacuum, 2018, 151, 148-155.	3.5	7
17	Development of a statistical method to help evaluating the transparency/opacity of decorative thin films. Applied Surface Science, 2018, 438, 51-58.	6.1	7
18	Concentrated solar energy used for sintering magnesium titanates for electronic applications. Applied Surface Science, 2018, 438, 59-65.	6.1	13

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19	Zr-O-N coatings for decorative purposes: Study of the system stability by exploration of the deposition parameter space. Surface and Coatings Technology, 2018, 343, 30-37.	4.8	23
20	In-situ XRD vs ex-situ vacuum annealing of tantalum oxynitride thin films: Assessments on the structural evolution. Applied Surface Science, 2018, 438, 14-19.	6.1	1
21	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
22	Optical and microstructural properties of Au alloyed Alâ€“O sputter deposited coatings. Thin Solid Films, 2016, 598, 65-71.	1.8	7
23	Functional behaviour of TiO₂ films doped with noble metals. Surface Engineering, 2016, 32, 554-561.	2.2	14
24	Multifunctional Tiâ€“Me (Me=Al, Cu) thin film systems for biomedical sensing devices. Vacuum, 2015, 122, 353-359.	3.5	20
25	Biological behaviour of thin films consisting of Au nanoparticles dispersed in a TiO2 dielectric matrix. Vacuum, 2015, 122, 360-368.	3.5	20
26	Structure dependent resistivity and dielectric characteristics of tantalum oxynitride thin films produced by magnetron sputtering. Applied Surface Science, 2015, 354, 298-305.	6.1	14
27	Composition and structure variation for magnetron sputtered tantalum oxynitride thin films, as function of deposition parameters. Applied Surface Science, 2015, 358, 508-517.	6.1	7
28	Structural, mechanical and piezoelectric properties of polycrystalline AlN films sputtered on titanium bottom electrodes. Applied Surface Science, 2015, 354, 267-278.	6.1	11
29	Optical properties of zirconium oxynitride films: The effect of composition, electronic and crystalline structures. Applied Surface Science, 2015, 358, 660-669.	6.1	19
30	Nanostructured Materials: Formation, Characterization, and Propertiesâ€”Latest Advances in 1D, 2D, and 3D Nanostructures. Advances in Materials Science and Engineering, 2014, 2014, 1-2.	1.8	1
31	Structural, chemical, optical and mechanical properties of Au doped AlN sputtered coatings. Surface and Coatings Technology, 2014, 255, 130-139.	4.8	9
32	Tantalum oxynitride thin films: Mechanical properties and wear behavior dependence on growth conditions. Surface and Coatings Technology, 2014, 258, 587-596.	4.8	13
33	Properties of tantalum oxynitride thin films produced by magnetron sputtering: The influence of processing parameters. Vacuum, 2013, 98, 63-69.	3.5	33
34	Development of tantalum oxynitride thin films produced by PVD: Study of structural stability. Applied Surface Science, 2013, 285, 19-26.	6.1	13
35	The influence of annealing treatments on the properties of Ag:TiO2 nanocomposite films prepared by magnetron sputtering. Applied Surface Science, 2012, 258, 4028-4034.	6.1	49
36	Structural and optical studies of Au doped titanium oxide films. Nuclear Instruments & Methods in Physics Research B, 2012, 272, 61-65.	1.4	16

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37	Tuning of the surface plasmon resonance in TiO2/Au thin films grown by magnetron sputtering: The effect of thermal annealing. Journal of Applied Physics, 2011, 109, .	2.5	74
38	Structure and chemical bonds in reactively sputtered black Tiâ€“Câ€“Nâ€“O thin films. Thin Solid Films, 2011, 520, 144-151.	1.8	20
39	Friction and wear behaviours of Ti(C,O,N) dark decorative coatings. Tribology International, 2011, 44, 820-828.	5.9	6
40	Tribological characterisation of magnetron sputtered Ti(C, O, N) thin films. International Journal of Materials and Product Technology, 2010, 39, 186.	0.2	6
41	Development of new decorative coatings based on gold nanoparticles dispersed in an amorphous TiO2 dielectric matrix. Surface and Coatings Technology, 2010, 204, 1569-1575.	4.8	44
42	Nanoscale color control of TiO2 films with embedded Au nanoparticles. Materials Letters, 2010, 64, 2624-2626.	2.6	45
43	Influence of composition and structural properties in the tribological behaviour of magnetron sputtered Tiâ€“Siâ€“C nanostructured thin films, prepared at low temperature. Wear, 2010, 268, 552-557.	3.1	24
44	Functional and optical properties of Au:TiO2 nanocomposite films: The influence of thermal annealing. Applied Surface Science, 2010, 256, 6536-6542.	6.1	43
45	Tiâ€“Siâ€“C Thin Films Produced by Magnetron Sputtering: Correlation Between Physical Properties, Mechanical Properties and Tribological Behavior. Journal of Nanoscience and Nanotechnology, 2010, 10, 2926-2932.	0.9	8
46	Structure and Chemical Bonds in Black Ti(C, N, O) Thin Films. , 2010, , .		0
47	The Role of Modulated IR Radiometry Measurements in the Characterization of Zrï£¿Oï£¿N Thin Films. Plasma Processes and Polymers, 2009, 6, S760.	3.0	5
48	Study on the Thermal Stability of Ti(C,O,N) Decorative Coatings. Plasma Processes and Polymers, 2009, 6, S755.	3.0	7
49	ZrO_{<i>x</i>}N_{<i>y</i>}decorative thin films prepared by the reactive gas pulsing process. Journal Physics D: Applied Physics, 2009, 42, 195501.	2.8	24
50	Development of dark Ti(C,O,N) coatings prepared by reactive sputtering. Surface and Coatings Technology, 2008, 203, 804-807.	4.8	24
51	Effect of thermal treatments on the structure of MoNxOy thin films. Vacuum, 2008, 82, 1428-1432.	3.5	18
52	Influence of the chemical and electronic structure on the electrical behavior of zirconium oxynitride films. Journal of Applied Physics, 2008, 103, .	2.5	66
53	The effect of bombarding conditions on the properties of multifunctional Tiâ€“Câ€“O thin films grown by magnetron sputtering. Surface and Coatings Technology, 2007, 202, 946-951.	4.8	17
54	The influence of structure changes in the properties of TiCxOy decorative thin films. Thin Solid Films, 2007, 515, 5424-5429.	1.8	21

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55	Compositional and structural changes in ZrOxNy films depending on growth condition. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 458-461.	1.4	8
56	Structural evolution in ZrNxOy thin films as a function of temperature. Surface and Coatings Technology, 2006, 200, 2917-2922.	4.8	46
57	Tribocorrosion behaviour of ZrOxNy thin films for decorative applications. Surface and Coatings Technology, 2006, 200, 6634-6639.	4.8	32
58	Properties of MoNxOy thin films as a function of the N/O ratio. Thin Solid Films, 2006, 494, 201-206.	1.8	22
59	Raman spectra and structural analysis in ZrOxNy thin films. Thin Solid Films, 2006, 515, 1132-1137.	1.8	38
60	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
61	Structural stability of decorative ZrNxOy thin films. Surface and Coatings Technology, 2005, 200, 748-752.	4.8	27
62	Structural, electrical, optical, and mechanical characterizations of decorative ZrOxNy thin films. Journal of Applied Physics, 2005, 98, 023715.	2.5	87
63	Effect of substrate bias voltage on amorphous Siâ€"Câ€"N films produced by PVD techniques. Thin Solid Films, 2004, 447-448, 436-442.	1.8	1
64	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
65	Corrosion resistance of ZrNxOy thin films obtained by rf reactive magnetron sputtering. Thin Solid Films, 2004, 469-470, 274-281.	1.8	52
66	Raman analysis of Siâ€"Câ€"N films grown by reactive magnetron sputtering. Thin Solid Films, 2004, 469-470, 410-415.	1.8	17
67	Effect of nitrogen gas flow on amorphous Siâ€"Câ€"N films produced by PVD techniques. Surface and Coatings Technology, 2003, 174-175, 324-330.	4.8	16
68	Properties of PVD Coatings on a Brass Substrate. Materials Science Forum, 2003, 437-438, 199-202.	0.3	0
69	Physical and morphological characterization of reactively magnetron sputtered TiN films. Thin Solid Films, 2002, 420-421, 421-428.	1.8	21
70	Performance of chromium nitride and titanium nitride coatings during plastic injection moulding. Surface and Coatings Technology, 2002, 153, 160-165.	4.8	51
71	Characterisation of chromium nitride films produced by PVD techniques. Thin Solid Films, 2001, 398-399, 501-506.	1.8	98
72	Performance of chromium nitride based coatings under plastic processing conditions. Surface and Coatings Technology, 2000, 133-134, 61-67.	4.8	37

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73	Residual stress, surface defects and corrosion resistance of CrN hard coatings. Surface and Coatings Technology, 1999, 111, 158-162.	4.8	84
74	Corrosion of CrN and TiAlN coatings in chloride-containing atmospheres. Surface and Coatings Technology, 1999, 116-119, 1152-1160.	4.8	102
75	Microstructure of CrN coatings produced by PVD techniques. Thin Solid Films, 1999, 355-356, 465-471.	1.8	127
76	Corrosion of TiN, (TiAl)N and CrN hard coatings produced by magnetron sputtering. Thin Solid Films, 1998, 317, 351-355.	1.8	67
77	Surface Plasmon Resonance Effect on the Optical Properties of TiO₂ Doped by Noble Metals Nanoparticles. Journal of Nano Research, 0, 18-19, 177-185.	0.8	8
78	Si Doped and Un-Doped CrN Thin Films Produced by Magnetron Sputtering: Structural and Mechanical Properties. Journal of Nano Research, 0, 18-19, 201-211.	0.8	5