Filipe Vaz

List of Publications by Year
in descending order

230 papers	5,833 citations	41 h-index	60 g-index
		71102	128289
234 all docs	234 docs citations	234 times ranked	4499 citing authors

#	Article	IF	Citations
1	Characterisation of Ti1â^'xSixNy nanocomposite films. Surface and Coatings Technology, 2000, 133-134, 307-313.	4.8	190
2	Structural, optical and mechanical properties of coloured TiNxOy thin films. Thin Solid Films, 2004, 447-448, 449-454.	1.8	169
3	Influence of nitrogen content on the structural, mechanical and electrical properties of TiN thin films. Surface and Coatings Technology, 2005, 191, 317-323.	4.8	146
4	Electromechanical performance of poly(vinylidene fluoride)/carbon nanotube composites for strain sensor applications. Sensors and Actuators A: Physical, 2012, 178, 10-16.	4.1	124
5	Thermal oxidation of Ti1 â^' xAlxN coatings in air. Journal of the European Ceramic Society, 1997, 17, 1971-1977.	5.7	123
6	Structural analysis of Ti1â^'xSixNy nanocomposite films prepared by reactive magnetron sputtering. Surface and Coatings Technology, 1999, 120-121, 166-172.	4.8	100
7	Novel Multipin Electrode Cap System for Dry Electroencephalography. Brain Topography, 2015, 28, 647-656.	1.8	91
8	Structural, electrical, optical, and mechanical characterizations of decorative ZrOxNy thin films. Journal of Applied Physics, 2005, 98, 023715.	2.5	87
9	Structural transitions in hard Si-based TiN coatings: the effect of bias voltage and temperature. Surface and Coatings Technology, 2001, 146-147, 274-279.	4.8	86
10	TiCxOy thin films for decorative applications: Tribocorrosion mechanisms and synergism. Tribology International, 2008, 41, 603-615.	5.9	85
11	Development of a quasi-dry electrode for EEG recording. Sensors and Actuators A: Physical, 2013, 199, 310-317.	4.1	82
12	Physical, structural and mechanical characterization of Ti1â^'xSixNy films. Surface and Coatings Technology, 1998, 108-109, 236-240.	4.8	81
13	Oxidation resistance of (Ti, Al, Si)N coatings in air. Surface and Coatings Technology, 1998, 98, 912-917.	4.8	76
14	Preparation of magnetron sputtered TiNxOy thin films. Surface and Coatings Technology, 2003, 174-175, 197-203.	4.8	74
15	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
16	Tribocorrosion behaviour of plasma nitrided and plasma nitrided+oxidised Ti6Al4V alloy. Surface and Coatings Technology, 2006, 200, 6218-6224.	4.8	68
17	Multifunctional Flax Fibres Based on the Combined Effect of Silver and Zinc Oxide (Ag/ZnO) Nanostructures. Nanomaterials, 2018, 8, 1069.	4.1	67
18	Residual stress states in sputtered Ti1Ã¢Â^Â'xSixNy films. Thin Solid Films, 2002, 402, 195-202.	1.8	66

#	ARTICLE	IF	CITATIONS
19	Influence of the chemical and electronic structure on the electrical behavior of zirconium oxynitride films. Journal of Applied Physics, 2008, 103, .	2.5	66
20	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
21	Oxidation resistance of (Ti,Al,Zr,Si)N coatings in air. Surface and Coatings Technology, 1995, 76-77, 70-74.	4.8	60
22	Tribocorrosion behaviour of TiC O thin films in bio-fluids. Electrochimica Acta, 2010, 56, 929-937.	5.2	55
23	Contact Pressure and Flexibility of Multipin Dry EEG Electrodes. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2018, 26, 750-757.	4.9	54
24	Optimization of nanocomposite Au/TiO 2 thin films towards LSPR optical-sensing. Applied Surface Science, 2018, 438, 74-83.	6.1	54
25	Relationship between electromechanical response and percolation threshold in carbon nanotube/poly(vinylidene fluoride) composites. Carbon, 2013, 61, 568-576.	10.3	53
26	Corrosion resistance of ZrNxOy thin films obtained by rf reactive magnetron sputtering. Thin Solid Films, 2004, 469-470, 274-281.	1.8	52
27	Microstructure of (Ti,Si,Al)N nanocomposite coatings. Surface and Coatings Technology, 2004, 177-178, 369-375.	4.8	52
28	Surface wettability modification of poly(vinylidene fluoride) and copolymer films and membranes by plasma treatment. Polymer, 2019, 169, 138-147.	3.8	51
29	Multichannel EEG with novel Ti/TiN dry electrodes. Sensors and Actuators A: Physical, 2015, 221, 139-147.	4.1	50
30	Mechanical evaluation of unbiased Wâ€"Oâ€"N coatings deposited by d.c. reactive magnetron sputtering. Surface and Coatings Technology, 2006, 200, 6511-6516.	4.8	49
31	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
32	Surface modification of starch based biomaterials by oxygen plasma or UV-irradiation. Journal of Materials Science: Materials in Medicine, 2010, 21, 21-32.	3.6	48
33	Structural evolution in ZrNxOy thin films as a function of temperature. Surface and Coatings Technology, 2006, 200, 2917-2922.	4.8	46
34	Elastic properties of (Ti,Al,Si)N nanocomposite films. Surface and Coatings Technology, 2001, 142-144, 110-116.	4.8	45
35	Property change in multifunctional TiCxOy thin films: Effect of the O/Ti ratio. Thin Solid Films, 2006, 515, 866-871.	1.8	45
36	Nanoscale color control of TiO2 films with embedded Au nanoparticles. Materials Letters, 2010, 64, 2624-2626.	2.6	45

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37	Mechanical characterization of reactively magnetron-sputtered TiN films. Surface and Coatings Technology, 2003, 174-175, 375-382.	4.8	44
38	Surface modification of starch based blends using potassium permanganate-nitric acid system and its effect on the adhesion and proliferation of osteoblast-like cells. Journal of Materials Science: Materials in Medicine, 2005, 16, 81-92.	3.6	44
39	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
40	Superhydrophilic poly(l-lactic acid) electrospun membranes for biomedical applications obtained by argon and oxygen plasma treatment. Applied Surface Science, 2016, 371, 74-82.	6.1	44
41	Magnetron sputtered Tiâ€“Siâ€“C thin films prepared at low temperatures. Surface and Coatings Technology, 2007, 201, 7180-7186.	4.8	43
42	Functional and optical properties of Au:TiO2 nanocomposite films: The influence of thermal annealing. Applied Surface Science, 2010, 256, 6536-6542.	6.1	43
43	Effect of filler dispersion on the electromechanical response of epoxy/vapor-grown carbon nanofiber composites. Smart Materials and Structures, 2012, 21, 075008.	3.5	43
44	Microstructural evolution of Au/TiO2 nanocomposite films: The influence of Au concentration and thermal annealing. Thin Solid Films, 2015, 580, 77-88.	1.8	43
45	Reactive sputtering of TiOxNy coatings by the reactive gas pulsing process. Part I: Pattern and period of pulses. Surface and Coatings Technology, 2007, 201, 7720-7726.	4.8	42
46	The role of composition, morphology and crystalline structure in the electrochemical behaviour of TiNx thin films for dry electrode sensor materials. Electrochimica Acta, 2009, 55, 59-67.	5.2	40
47	Structural and corrosion behaviour of stoichiometric and substoichiometric TiN thin films. Surface and Coatings Technology, 2004, 180-181, 158-163.	4.8	38
48	Raman spectra and structural analysis in ZrOxNy thin films. Thin Solid Films, 2006, 515, 1132-1137.	1.8	38
49	Nanocomposite Ag:TiN thin films for dry biopotential electrodes. Applied Surface Science, 2013, 285, 40-48.	6.1	38
50	TiNx coated polycarbonate for bio-electrode applications. Corrosion Science, 2012, 56, 49-57.	6.6	37
51	Ion beam studies of TiNxOy thin films deposited by reactive magnetron sputtering. Surface and Coatings Technology, 2004, 180-181, 372-376.	4.8	36
52	Characterization of hard DC-sputtered Si-based TiN coatings: the effect of composition and ion bombardment. Surface and Coatings Technology, 2004, 188-189, 351-357.	4.8	36
53	Structural evolution of Tiâ€“Alâ€“Siâ€“N nanocomposite coatings. Vacuum, 2009, 83, 1206-1212.	3.5	36
54	Young's modulus of (Ti,Si)N films by surface acoustic waves and indentation techniques. Thin Solid Films, 2002, 408, 160-168.	1.8	35

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55	AlNxOy thin films deposited by DC reactive magnetron sputtering. Applied Surface Science, 2010, 257, 1478-1483.	6.1	34
56	TiAgx thin films for lower limb prosthesis pressure sensors: Effect of composition and structural changes on the electrical and thermal response of the films. Applied Surface Science, 2013, 285, 10-18.	6.1	34
57	Properties of tantalum oxynitride thin films produced by magnetron sputtering: The influence of processing parameters. Vacuum, 2013, 98, 63-69.	3.5	33
58	Nanoplasmonic response of porous Au-TiO₂ thin films prepared by oblique angle deposition. Nanotechnology, 2019, 30, 225701.	2.6	33
59	Tribocorrosion behaviour of ZrOxNy thin films for decorative applications. Surface and Coatings Technology, 2006, 200, 6634-6639.	4.8	32
60	The effect of the addition of Al and Si on the physical and mechanical properties of titanium nitride. Journal of Materials Processing Technology, 1999, 92-93, 169-176.	6.3	31
61	XRD and FTIR analysis of Tiâ€“Siâ€“Câ€“ON coatings for biomedical applications. Surface and Coatings Technology, 2008, 203, 490-494.	4.8	31
62	Broadband Optical Absorption Caused by the Plasmonic Response of Coalesced Au Nanoparticles Embedded in a TiO₂ Matrix. Journal of Physical Chemistry C, 2016, 120, 16931-16945.	3.1	31
63	Electrochemical behaviour of nanocomposite Agx:TiN thin films for dry biopotential electrodes. Electrochimica Acta, 2014, 125, 48-57.	5.2	30
64	Thin films of Agâ€“Au nanoparticles dispersed in TiO₂: influence of composition and microstructure on the LSPR and SERS responses. Journal Physics D: Applied Physics, 2018, 51, 205102.	2.8	30
65	Nanocomposite thin films based on Au-Ag nanoparticles embedded in a CuO matrix for localized surface plasmon resonance sensing. Applied Surface Science, 2019, 484, 152-168.	6.1	29
66	Gas Sensors Based on Localized Surface Plasmon Resonances: Synthesis of Oxide Films with Embedded Metal Nanoparticles, Theory and Simulation, and Sensitivity Enhancement Strategies. Applied Sciences (Switzerland), 2021, 11, 5388.	2.5	29
67	Influence of the O/C ratio in the behaviour of TiCxOy thin films. Surface and Coatings Technology, 2007, 201, 5587-5591.	4.8	28
68	Thin films composed of gold nanoparticles dispersed in a dielectric matrix: The influence of the host matrix on the optical and mechanical responses. Thin Solid Films, 2015, 596, 8-17.	1.8	28
69	Thin films composed of Ag nanoclusters dispersed in TiO2: Influence of composition and thermal annealing on the microstructure and physical responses. Applied Surface Science, 2015, 358, 595-604.	6.1	28
70	Development of Au/CuO nanoplasmonic thin films for sensing applications. Surface and Coatings Technology, 2018, 343, 178-185.	4.8	28
71	Structural stability of decorative ZrNxOy thin films. Surface and Coatings Technology, 2005, 200, 748-752.	4.8	27
72	Analysis of multifunctional titanium oxycarbide films as a function of oxygen addition. Surface and Coatings Technology, 2012, 206, 2525-2534.	4.8	27

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73	Evolution of the surface plasmon resonance of Au:TiO2 nanocomposite thin films with annealing temperature. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	27
74	Ag:TiNâ€Coated Polyurethane for Dry Biopotential Electrodes: From Polymer Plasma Interface Activation to the First EEG Measurements. Plasma Processes and Polymers, 2016, 13, 341-354.	3.0	27
75	Development of label-free plasmonic Au-TiO2 thin film immunosensor devices. Materials Science and Engineering C, 2019, 100, 424-432.	7.3	27
76	Antibacterial effect and biocompatibility of a novel nanostructured ZnO-coated gutta-percha cone for improved endodontic treatment. Materials Science and Engineering C, 2018, 92, 840-848.	7.3	26
77	Dry Electrodes for Surface Electromyography Based on Architectured Titanium Thin Films. Materials, 2020, 13, 2135.	2.9	26
78	Influence of the sputtering pressure on the morphological features and electrical resistivity anisotropy of nanostructured titanium films. Applied Surface Science, 2017, 420, 681-690.	6.1	25
79	Comparison of three types of dry electrodes for electroencephalography. Acta IMEKO (2012), 2014, 3, 33.	0.7	25
80	Development of dark Ti(C,O,N) coatings prepared by reactive sputtering. Surface and Coatings Technology, 2008, 203, 804-807.	4.8	24
81	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
82	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
83	Electrical properties of AlNxOy thin films prepared by reactive magnetron sputtering. Thin Solid Films, 2012, 520, 6709-6717.	1.8	24
84	Influence of stoichiometry and structure on the optical properties of AlN_xO_y films. Journal Physics D: Applied Physics, 2013, 46, 015305.	2.8	24
85	Thin films composed of Au nanoparticles embedded in AlN: Influence of metal concentration and thermal annealing on the LSPR band. Vacuum, 2018, 157, 414-421.	3.5	24
86	Chacterization of titanium silicon nitride films deposited by PVD. Vacuum, 1999, 52, 209-214.	3.5	23
87	Electrical characterization of Ag:TiN thin films produced by glancing angle deposition. Materials Letters, 2014, 115, 136-139.	2.6	23
88	Piezoresistive Polymer-Based Materials for Real-Time Assessment of the Stump/Socket Interface Pressure in Lower Limb Amputees. IEEE Sensors Journal, 2017, 17, 2182-2190.	4.7	23
89	Physical and mechanical properties of Ti1 âˆ’ xSixN films. Surface and Coatings Technology, 1998, 100-101, 110-115.	4.8	22
90	Electrochemical behaviour of titanium coated stainless steel by r.f. sputtering in synthetic sweat solutions for electrode applications. Corrosion Science, 2004, 46, 3005-3018.	6.6	22

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91	Properties of MoNxOy thin films as a function of the N/O ratio. Thin Solid Films, 2006, 494, 201-206.	1.8	22
92	The effect of additives and mechanical agitation in surface modification of acrylic fibres by cutinase and esterase. Biotechnology Journal, 2006, 1, 842-849.	3.5	22
93	Nano-sculptured Janus-like TiAg thin films obliquely deposited by GLAD co-sputtering for temperature sensing. Nanotechnology, 2018, 29, 355706.	2.6	22
94	Evolution of the mechanical properties of Ti-based intermetallic thin films doped with different metals to be used as biomedical devices. Applied Surface Science, 2020, 505, 144617.	6.1	22
95	Optimization of Au:CuO Nanocomposite Thin Films for Gas Sensing with High-Resolution Localized Surface Plasmon Resonance Spectroscopy. Analytical Chemistry, 2020, 92, 4349-4356.	6.5	22
96	Physical and morphological characterization of reactively magnetron sputtered TiN films. Thin Solid Films, 2002, 420-421, 421-428.	1.8	21
97	Effects of the morphology and structure on the elastic behavior of (Ti,Si,Al)N nanocomposites. Surface and Coatings Technology, 2003, 174-175, 984-991.	4.8	21
98	Reactive sputtering of TiOxNy coatings by the reactive gas pulsing process. Surface and Coatings Technology, 2007, 201, 7727-7732.	4.8	21
99	Reactive sputtering of TiOxNy coatings by the reactive gas pulsing process: Part III: The particular case of exponential pulses. Surface and Coatings Technology, 2007, 201, 7733-7738.	4.8	21
100	The influence of structure changes in the properties of TiCxOy decorative thin films. Thin Solid Films, 2007, 515, 5424-5429.	1.8	21
101	ab-initio Study of the properties of Ti1âˆ’xâˆ’ySixAlyN solid solution. Vacuum, 2009, 83, 1240-1243.	3.5	21
102	Structure and chemical bonds in reactively sputtered black Tiâ€“Câ€“Nâ€“O thin films. Thin Solid Films, 2011, 520, 144-151.	1.8	20
103	Nanostructured functional Tiâ€“Ag electrodes for large deformation sensor applications. Sensors and Actuators A: Physical, 2014, 220, 204-212.	4.1	20
104	Multifunctional Tiâ€“Me (Me=Al, Cu) thin film systems for biomedical sensing devices. Vacuum, 2015, 122, 353-359.	3.5	20
105	Biological behaviour of thin films consisting of Au nanoparticles dispersed in a TiO2 dielectric matrix. Vacuum, 2015, 122, 360-368.	3.5	20
106	Electron Tomography of Plasmonic Au Nanoparticles Dispersed in a TiO₂ Dielectric Matrix. ACS Applied Materials & Interfaces, 2018, 10, 42882-42890.	8.0	20
107	Development and characterization of ZnO piezoelectric thin films on polymeric substrates for tissue repair. Journal of Biomedical Materials Research - Part A, 2019, 107, 2150-2159.	4.0	20
108	Thin films composed of metal nanoparticles (Au, Ag, Cu) dispersed in AlN: The influence of composition and thermal annealing on the structure and plasmonic response. Thin Solid Films, 2019, 676, 12-25.	1.8	20

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109	The contribution of grain boundary barriers to the electrical conductivity of titanium oxide thin films. Applied Physics Letters, 2008, 93, 064102.	3.3	19
110	Preparation and characterization of CrNxOy thin films: The effect of composition and structural features on the electrical behavior. Applied Surface Science, 2011, 257, 9120-9124.	6.1	19
111	Development of polymer wicks for the fabrication of bio-medical sensors. Materials Science and Engineering C, 2015, 49, 356-363.	7.3	19
112	Optical properties of zirconium oxynitride films: The effect of composition, electronic and crystalline structures. Applied Surface Science, 2015, 358, 660-669.	6.1	19
113	Evolution of the functional properties of titaniumâ€“silver thin films for biomedical applications: Influence of in-vacuum annealing. Surface and Coatings Technology, 2015, 261, 262-271.	4.8	19
114	Effect of thermal treatments on the structure of MoNxOy thin films. Vacuum, 2008, 82, 1428-1432.	3.5	18
115	First principles study of point defects in titanium oxycarbide. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 165, 194-197.	3.5	18
116	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
117	Modulated IR radiometry of (TiSi)N thin films. Vacuum, 2008, 82, 1457-1460.	3.5	17
118	Plasma Surface Modification of Polycarbonate and Poly(propylene) Substrates for Biomedical Electrodes. Plasma Processes and Polymers, 2010, 7, 676-686.	3.0	17
119	TiO₂ coatings with Au nanoparticles analysed by photothermal IR radiometry. Journal Physics D: Applied Physics, 2012, 45, 105301.	2.8	17
120	Piezoresistive response of nano-architectured Ti x Cu y thin films for sensor applications. Sensors and Actuators A: Physical, 2016, 247, 105-114.	4.1	17
121	Influence of Oxygen Addition on the Structural and Elastic Properties of TiC Thin Films. Plasma Processes and Polymers, 2007, 4, S195-S199.	3.0	16
122	Influence of air oxidation on the properties of decorative NbOxNy coatings prepared by reactive gas pulsing. Surface and Coatings Technology, 2008, 202, 2363-2367.	4.8	16
123	Structural and optical studies of Au doped titanium oxide films. Nuclear Instruments & Methods in Physics Research B, 2012, 272, 61-65.	1.4	16
124	Relationship between nano-architectured Ti1â^’x Cu x thin film and electrical resistivity for resistance temperature detectors. Journal of Materials Science, 2017, 52, 4878-4885.	3.7	16
125	Surface Plasmon Resonance in a Metallic Nanoparticle Embedded in a Semiconductor Matrix: Excitonâ€“Plasmon Coupling. ACS Photonics, 2019, 6, 204-210.	6.6	16
126	Tailoring Electrospun Poly(<scp>l</scp>-lactic acid) Nanofibers as Substrates for Microfluidic Applications. ACS Applied Materials & Interfaces, 2020, 12, 60-69.	8.0	16

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127	Novel TiN<i>_x</i>-based biosignal electrodes for electroencephalography. Measurement Science and Technology, 2011, 22, 124007.	2.6	15
128	Influence of the composition of titanium oxynitride layers on the fretting behavior of functionalized titanium substrates: PVD films versus surface laser treatments. Surface and Coatings Technology, 2014, 255, 146-152.	4.8	15
129	Gas Sensing with Nanoplasmonic Thin Films Composed of Nanoparticles (Au, Ag) Dispersed in a CuO Matrix. Coatings, 2019, 9, 337.	2.6	15
130	Protective Ag:TiO2 thin films for pressure sensors in orthopedic prosthesis: the importance of composition, structural and morphological features on the biological response of the coatings. Journal of Materials Science: Materials in Medicine, 2014, 25, 2069-2081.	3.6	14
131	Functional behaviour of TiO₂ films doped with noble metals. Surface Engineering, 2016, 32, 554-561.	2.2	14
132	Antifungal activity of ZnO thin films prepared by glancing angle deposition. Thin Solid Films, 2019, 687, 137461.	1.8	14
133	Effect of the microstructure on the cutting performance of superhard (Ti,Si,Al)N nanocomposite films. Vacuum, 2008, 82, 1470-1474.	3.5	13
134	Development of tantalum oxynitride thin films produced by PVD: Study of structural stability. Applied Surface Science, 2013, 285, 19-26.	6.1	13
135	Tribological characterization of TiO 2 /Au decorative thin films obtained by PVD magnetron sputtering technology. Wear, 2015, 330-331, 419-428.	3.1	13
136	Study of the electrical behavior of nanostructured Tiâ€“Ag thin films, prepared by Glancing Angle Deposition. Materials Letters, 2015, 157, 188-192.	2.6	13
137	Ag fractals formed on top of a porous TiO₂ thin film. Physica Status Solidi - Rapid Research Letters, 2016, 10, 530-534.	2.4	13
138	Thin films of Au-Al2O3 for plasmonic sensing. Applied Surface Science, 2020, 500, 144035.	6.1	13
139	NANOPTICS: In-depth analysis of NANomaterials for OPTICal localized surface plasmon resonance Sensing. SoftwareX, 2020, 12, 100522.	2.6	13
140	Superhard Nanocomposite Ti-Si-N Coatings. Materials Science Forum, 2001, 383, 143-150.	0.3	12
141	Photothermal characterization of thin films and coatings. Vacuum, 2008, 82, 1461-1465.	3.5	12
142	Thermal stability, mechanical and corrosion behaviour of niobium-based coatings in the ternary system Nbâ€“Oâ€“N. Thin Solid Films, 2011, 519, 2457-2463.	1.8	12
143	Growth and size distribution of Au nanoparticles in annealed Au/TiO2 thin films. Thin Solid Films, 2014, 553, 138-143.	1.8	12
144	Electrochemical characterization of nanostructured Ag:TiN thin films produced by glancing angle deposition on polyurethane substrates for bio-electrode applications. Journal of Electroanalytical Chemistry, 2016, 768, 110-120.	3.8	12

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145	Tuning electrical resistivity anisotropy of ZnO thin films for resistive sensor applications. Thin Solid Films, 2018, 654, 93-99.	1.8	12
146	Au-WO3 Nanocomposite Coatings for Localized Surface Plasmon Resonance Sensing. Materials, 2020, 13, 246.	2.9	12
147	Molybdenum Oxide Thin Films Grown on Flexible ITO-Coated PET Substrates. Materials, 2021, 14, 821.	2.9	12
148	Influence of composition, bonding characteristics and microstructure on the electrochemical and optical stability of AlOxNy thin films. Electrochimica Acta, 2013, 106, 23-34.	5.2	11
149	Properties of CrN thin films deposited in plasma-activated ABS by reactive magnetron sputtering. Surface and Coatings Technology, 2018, 349, 858-866.	4.8	11
150	Correlation Between Processing and Properties of Titanium Oxycarbide, TiCxOy, Thin Films. Plasma Processes and Polymers, 2007, 4, S83-S88.	3.0	10
151	Analysis of multifunctional oxycarbide and oxynitride thin films by modulated IR radiometry. Journal Physics D: Applied Physics, 2010, 43, 395301.	2.8	10
152	Structural and Morphological Changes in Ag:TiN Nanocomposite Films Promoted by In-Vacuum Annealing. Journal of Nano Research, 2013, 25, 67-76.	0.8	10
153	High performance piezoresistive response of nanostructured ZnO/Ag thin films for pressure sensing applications. Thin Solid Films, 2019, 691, 137587.	1.8	10
154	Nanostructured Ti1-xCux thin films with tailored electrical and morphological anisotropy. Thin Solid Films, 2019, 672, 47-54.	1.8	10
155	Fracture resistance of Ti-Ag thin films deposited on polymeric substrates for biosignal acquisition applications. Surface and Coatings Technology, 2019, 358, 646-653.	4.8	10
156	Surface functionalization of polypropylene (PP) by chitosan immobilization to enhance human fibroblasts viability. Polymer Testing, 2020, 86, 106507.	4.8	10
157	Optical properties of titanium oxycarbide thin films. Applied Surface Science, 2009, 255, 5615-5619.	6.1	9
158	Novel flexible dry PU/TiN-multipin electrodes: First application in EEG measurements. , 2011, 2011, 55-8.		9
159	Effect of clustering on the surface plasmon band in thin films of metallic nanoparticles. Journal of Nanophotonics, 2014, 9, 093796.	1.0	9
160	Structural, chemical, optical and mechanical properties of Au doped AlN sputtered coatings. Surface and Coatings Technology, 2014, 255, 130-139.	4.8	9
161	Electrochemical and structural characterization of nanocomposite Agy:TiNx thin films for dry bioelectrodes: the effect of the N/Ti ratio and Ag content. Electrochimica Acta, 2015, 153, 602-611.	5.2	9
162	Carbon Monoxide (CO) Sensor Based on Au Nanoparticles Embedded in a CuO Matrix by HR-LSPR Spectroscopy at Room Temperature. , 2021, 5, 1-3.		9

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163	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
164	Structural and Mechanical properties of Tiâ€“Siâ€“Câ€“ON for biomedical applications. Surface and Coatings Technology, 2008, 202, 2403-2407.	4.8	8
165	Thickness Control of Coatings by Means of Modulated IR Radiometry. Plasma Processes and Polymers, 2009, 6, S592-S598.	3.0	8
166	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
167	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
168	Piezoresistive response of Pluronic-wrapped single-wall carbon nanotubeâ€“epoxy composites. Journal of Intelligent Material Systems and Structures, 2012, 23, 909-917.	2.5	8
169	Modulated IR radiometry for determining thermal properties and basic characteristics of titanium thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, 041511.	2.1	8
170	Modular multipin electrodes for comfortable dry EEG. , 2016, 2016, 5705-5708.		8
171	Development of biocompatible plasmonic thin films composed of noble metal nanoparticles embedded in a dielectric matrix to enhance Raman signals. Applied Surface Science, 2019, 496, 143701.	6.1	8
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