

Filipe Vaz

List of Publications by Year in descending order

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230
papers

5,833
citations

70961

41
h-index

128067

60
g-index

234
all docs

234
docs citations

234
times ranked

4499
citing authors

#	ARTICLE	IF	CITATIONS
1	Unraveling the role of magnetic anisotropy on the thermoelectric response: a theoretical and experimental approach. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 025001.	1.3	3
2	Plasmonic Strain Sensors Based on Au-TiO ₂ Thin Films on Flexible Substrates. <i>Sensors</i> , 2022, 22, 1375.	2.1	3
3	Flexible TiCu Thin Films with Dual Antimicrobial and Piezoresistive Characteristics. <i>ACS Applied Bio Materials</i> , 2022, 5, 1267-1272.	2.3	3
4	Assessing the relaxation mechanisms contributions on magnetoimpedance effect in YIG/W bilayers. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 215003.	1.3	0
5	Immobilization of Streptavidin on a Plasmonic Au-TiO ₂ Thin Film towards an LSPR Biosensing Platform. <i>Nanomaterials</i> , 2022, 12, 1526.	1.9	6
6	Molybdenum Oxide Thin Films Grown on Flexible ITO-Coated PET Substrates. <i>Materials</i> , 2021, 14, 821.	1.3	12
7	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
8	Bioactive and biopassive treatment of poly(ethylene terephthalate) multifilament textile yarns to improve/prevent fibroblast viability. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021, 109, 2213-2226.	1.6	5
9	Gas Sensors Based on Localized Surface Plasmon Resonances: Synthesis of Oxide Films with Embedded Metal Nanoparticles, Theory and Simulation, and Sensitivity Enhancement Strategies. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 5388.	1.3	29
10	Co ₂ FeAl Heusler alloy onto amorphous TiO ₂ layer: Exploring the quasi-static and dynamic magnetic properties. <i>Journal of Physics and Chemistry of Solids</i> , 2021, 154, 110088.	1.9	3
11	Improving the Room-Temperature Ferromagnetism in ZnO and Low-Doped ZnO:Ag Films Using GLAD Sputtering. <i>Materials</i> , 2021, 14, 5337.	1.3	1
12	Nanostructured Cr(N,O) based thin films for relative humidity sensing. <i>Vacuum</i> , 2021, 191, 110333.	1.6	2
13	Directional Field-Dependence of Magnetoimpedance Effect on Integrated YIG/Pt-Stripline System. <i>Sensors</i> , 2021, 21, 6145.	2.1	6
14	Structural, Mechanical, and Decorative Properties of Sputtered TiN and Ti (N, C) Films for Orthodontic Applications; an In Vitro Study. <i>Materials</i> , 2021, 14, 5175.	1.3	6
15	Multifunctional hard coatings based on CrN _x for temperature sensing applications. <i>Sensors and Actuators A: Physical</i> , 2021, 329, 112794.	2.0	4
16	In-situ annealing transmission electron microscopy of plasmonic thin films composed of bimetallic Au@Ag nanoparticles dispersed in a TiO ₂ matrix. <i>Vacuum</i> , 2021, 193, 110511.	1.6	8
17	Me-Doped Ti@Me Intermetallic Thin Films Used for Dry Biopotential Electrodes: A Comparative Case Study. <i>Sensors</i> , 2021, 21, 8143.	2.1	5
18	Thin films of Au-Al ₂ O ₃ for plasmonic sensing. <i>Applied Surface Science</i> , 2020, 500, 144035.	3.1	13

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19	Evolution of the mechanical properties of Ti-based intermetallic thin films doped with different metals to be used as biomedical devices. <i>Applied Surface Science</i> , 2020, 505, 144617.	3.1	22
20	Tailoring Electrospun Poly(l-lactic acid) Nanofibers as Substrates for Microfluidic Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 60-69.	4.0	16
21	Magnetic Response Dependence of ZnO Based Thin Films on Ag Doping and Processing Architecture. <i>Materials</i> , 2020, 13, 2907.	1.3	3
22	Dry Electrodes for Surface Electromyography Based on Architected Titanium Thin Films. <i>Materials</i> , 2020, 13, 2135.	1.3	26
23	NANOPTICS: In-depth analysis of NANomaterials for OPTICal localized surface plasmon resonance Sensing. <i>SoftwareX</i> , 2020, 12, 100522.	1.2	13
24	Preparation of Plasmonic Au-TiO ₂ Thin Films on a Transparent Polymer Substrate. <i>Coatings</i> , 2020, 10, 227.	1.2	3
25	High-frequency magnetoimpedance effect in meander-line trilayered films. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 515, 167166.	1.0	4
26	Optimization of Au:CuO Nanocomposite Thin Films for Gas Sensing with High-Resolution Localized Surface Plasmon Resonance Spectroscopy. <i>Analytical Chemistry</i> , 2020, 92, 4349-4356.	3.2	22
27	Modulation of the magnetoimpedance effect of ZnO:Ag/NiFe heterostructures by thermal annealing. <i>Journal of Materials Science</i> , 2020, 55, 5961-5968.	1.7	5
28	Au-WO ₃ Nanocomposite Coatings for Localized Surface Plasmon Resonance Sensing. <i>Materials</i> , 2020, 13, 246.	1.3	12
29	Nanocomposite Au-ZnO thin films: Influence of gold concentration and thermal annealing on the microstructure and plasmonic response. <i>Surface and Coatings Technology</i> , 2020, 385, 125379.	2.2	8
30	Surface functionalization of polypropylene (PP) by chitosan immobilization to enhance human fibroblasts viability. <i>Polymer Testing</i> , 2020, 86, 106507.	2.3	10
31	Fabrication, Characterization and Implementation of Thermo Resistive TiCu(N,O) Thin Films in a Polymer Injection Mold. <i>Materials</i> , 2020, 13, 1423.	1.3	6
32	Enhancing the Sensitivity of Nanoplasmonic Thin Films for Ethanol Vapor Detection. <i>Materials</i> , 2020, 13, 870.	1.3	6
33	Antifungal activity of ZnO thin films prepared by glancing angle deposition. <i>Thin Solid Films</i> , 2019, 687, 137461.	0.8	14
34	High performance piezoresistive response of nanostructured ZnO/Ag thin films for pressure sensing applications. <i>Thin Solid Films</i> , 2019, 691, 137587.	0.8	10
35	Development of biocompatible plasmonic thin films composed of noble metal nanoparticles embedded in a dielectric matrix to enhance Raman signals. <i>Applied Surface Science</i> , 2019, 496, 143701.	3.1	8
36	Gas Sensing with Nanoplasmonic Thin Films Composed of Nanoparticles (Au, Ag) Dispersed in a CuO Matrix. <i>Coatings</i> , 2019, 9, 337.	1.2	15

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37	Development and characterization of ZnO piezoelectric thin films on polymeric substrates for tissue repair. <i>Journal of Biomedical Materials Research - Part A</i> , 2019, 107, 2150-2159.	2.1	20
38	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. <i>Thin Solid Films</i> , 2019, 676, 12-25.	0.8	20
39	Development of label-free plasmonic Au-TiO ₂ thin film immunosensor devices. <i>Materials Science and Engineering C</i> , 2019, 100, 424-432.	3.8	27
40	Nanocomposite thin films based on Au-Ag nanoparticles embedded in a CuO matrix for localized surface plasmon resonance sensing. <i>Applied Surface Science</i> , 2019, 484, 152-168.	3.1	29
41	Nanostructured Ti _{1-x} Cu _x thin films with tailored electrical and morphological anisotropy. <i>Thin Solid Films</i> , 2019, 672, 47-54.	0.8	10
42	Surface wettability modification of poly(vinylidene fluoride) and copolymer films and membranes by plasma treatment. <i>Polymer</i> , 2019, 169, 138-147.	1.8	51
43	Nanoplasmonic response of porous Au-TiO ₂ thin films prepared by oblique angle deposition. <i>Nanotechnology</i> , 2019, 30, 225701.	1.3	33
44	BraMat 2019 Special Issue: Editorial Preface. <i>Materials Today: Proceedings</i> , 2019, 19, 909.	0.9	0
45	Surface Plasmon Resonance in a Metallic Nanoparticle Embedded in a Semiconductor Matrix: Exciton-Plasmon Coupling. <i>ACS Photonics</i> , 2019, 6, 204-210.	3.2	16
46	Fracture resistance of Ti-Ag thin films deposited on polymeric substrates for biosignal acquisition applications. <i>Surface and Coatings Technology</i> , 2019, 358, 646-653.	2.2	10
47	Effect of microstructural changes in the biological behavior of magnetron sputtered ZnO thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	0.9	6
48	Tuning electrical resistivity anisotropy of ZnO thin films for resistive sensor applications. <i>Thin Solid Films</i> , 2018, 654, 93-99.	0.8	12
49	Thin films of Ag-Au nanoparticles dispersed in TiO ₂ : influence of composition and microstructure on the LSPR and SERS responses. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 205102.	1.3	30
50	Contact Pressure and Flexibility of Multipin Dry EEG Electrodes. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2018, 26, 750-757.	2.7	54
51	Optimization of nanocomposite Au/TiO ₂ thin films towards LSPR optical-sensing. <i>Applied Surface Science</i> , 2018, 438, 74-83.	3.1	54
52	Development of Au/CuO nanoplasmonic thin films for sensing applications. <i>Surface and Coatings Technology</i> , 2018, 343, 178-185.	2.2	28
53	Electron Tomography of Plasmonic Au Nanoparticles Dispersed in a TiO ₂ Dielectric Matrix. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 42882-42890.	4.0	20
54	Multifunctional Flax Fibres Based on the Combined Effect of Silver and Zinc Oxide (Ag/ZnO) Nanostructures. <i>Nanomaterials</i> , 2018, 8, 1069.	1.9	67

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55	Thin films composed of Au nanoparticles embedded in AlN: Influence of metal concentration and thermal annealing on the LSPR band. <i>Vacuum</i> , 2018, 157, 414-421.	1.6	24
56	Properties of CrN thin films deposited in plasma-activated ABS by reactive magnetron sputtering. <i>Surface and Coatings Technology</i> , 2018, 349, 858-866.	2.2	11
57	Antibacterial effect and biocompatibility of a novel nanostructured ZnO-coated gutta-percha cone for improved endodontic treatment. <i>Materials Science and Engineering C</i> , 2018, 92, 840-848.	3.8	26
58	Nano-sculptured Janus-like TiAg thin films obliquely deposited by GLAD co-sputtering for temperature sensing. <i>Nanotechnology</i> , 2018, 29, 355706.	1.3	22
59	Piezoresistive Polymer-Based Materials for Real-Time Assessment of the Stump/Socket Interface Pressure in Lower Limb Amputees. <i>IEEE Sensors Journal</i> , 2017, 17, 2182-2190.	2.4	23
60	Influence of the sputtering pressure on the morphological features and electrical resistivity anisotropy of nanostructured titanium films. <i>Applied Surface Science</i> , 2017, 420, 681-690.	3.1	25
61	Relationship between nano-architected $Ti_{1-x}Cu_x$ thin film and electrical resistivity for resistance temperature detectors. <i>Journal of Materials Science</i> , 2017, 52, 4878-4885.	1.7	16
62	Corrosion Behavior of Titanium Oxynitrided by Diffusion and Magnetron Sputtering Methods in Physiological Solution. <i>Materials Performance and Characterization</i> , 2017, 6, 594-606.	0.2	0
63	Ag fractals formed on top of a porous TiO_2 thin film. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 530-534.	1.2	13
64	Ag:TiN-Coated Polyurethane for Dry Biopotential Electrodes: From Polymer Plasma Interface Activation to the First EEG Measurements. <i>Plasma Processes and Polymers</i> , 2016, 13, 341-354.	1.6	27
65	Broadband Optical Absorption Caused by the Plasmonic Response of Coalesced Au Nanoparticles Embedded in a TiO_2 Matrix. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16931-16945.	1.5	31
66	Piezoresistive response of nano-architected Ti_xCu_y thin films for sensor applications. <i>Sensors and Actuators A: Physical</i> , 2016, 247, 105-114.	2.0	17
67	Back Cover: Ag fractals formed on top of a porous TiO_2 thin film (Phys. Status Solidi RRL) Tj ETQq1 1 0.784314 ggBT /Ov 1.2		
68	Graphene and polarisable nanoparticles: Looking good together?. , 2016, , .		0
69	Modular multipin electrodes for comfortable dry EEG. , 2016, 2016, 5705-5708.		8
70	Optical and microstructural properties of Au alloyed Al O sputter deposited coatings. <i>Thin Solid Films</i> , 2016, 598, 65-71.	0.8	7
71	Functional behaviour of TiO_2 films doped with noble metals. <i>Surface Engineering</i> , 2016, 32, 554-561.	1.1	14
72	Electrochemical characterization of nanostructured Ag:TiN thin films produced by glancing angle deposition on polyurethane substrates for bio-electrode applications. <i>Journal of Electroanalytical Chemistry</i> , 2016, 768, 110-120.	1.9	12

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73	Superhydrophilic poly(L-lactic acid) electrospun membranes for biomedical applications obtained by argon and oxygen plasma treatment. <i>Applied Surface Science</i> , 2016, 371, 74-82.	3.1	44
74	Tribological characterization of TiO ₂ /Au decorative thin films obtained by PVD magnetron sputtering technology. <i>Wear</i> , 2015, 330-331, 419-428.	1.5	13
75	Novel Multipin Electrode Cap System for Dry Electroencephalography. <i>Brain Topography</i> , 2015, 28, 647-656.	0.8	91
76	Thin films composed of gold nanoparticles dispersed in a dielectric matrix: The influence of the host matrix on the optical and mechanical responses. <i>Thin Solid Films</i> , 2015, 596, 8-17.	0.8	28
77	Multifunctional Ti@Me (Me=Al, Cu) thin film systems for biomedical sensing devices. <i>Vacuum</i> , 2015, 122, 353-359.	1.6	20
78	Electrochemical and structural characterization of nanocomposite Ag _y :TiN _x thin films for dry bioelectrodes: the effect of the N/Ti ratio and Ag content. <i>Electrochimica Acta</i> , 2015, 153, 602-611.	2.6	9
79	Development of polymer wicks for the fabrication of bio-medical sensors. <i>Materials Science and Engineering C</i> , 2015, 49, 356-363.	3.8	19
80	Study of the electrical behavior of nanostructured Ti@Ag thin films, prepared by Glancing Angle Deposition. <i>Materials Letters</i> , 2015, 157, 188-192.	1.3	13
81	Biological behaviour of thin films consisting of Au nanoparticles dispersed in a TiO ₂ dielectric matrix. <i>Vacuum</i> , 2015, 122, 360-368.	1.6	20
82	Microstructural evolution of Au/TiO ₂ nanocomposite films: The influence of Au concentration and thermal annealing. <i>Thin Solid Films</i> , 2015, 580, 77-88.	0.8	43
83	Ag _y :TiN _x thin films for dry biopotential electrodes: the effect of composition and structural changes on the electrical and mechanical behaviours. <i>Applied Physics A: Materials Science and Processing</i> , 2015, 119, 169-178.	1.1	2
84	Effect of surface plasmon resonance in TiO ₂ /Au thin films on the fluorescence of self-assembled CdTe QDs structure. <i>Journal of Physics: Conference Series</i> , 2015, 605, 012025.	0.3	3
85	Thin films composed of Ag nanoclusters dispersed in TiO ₂ : Influence of composition and thermal annealing on the microstructure and physical responses. <i>Applied Surface Science</i> , 2015, 358, 595-604.	3.1	28
86	The influence of nitrogen and oxygen additions on the thermal characteristics of aluminium-based thin films. <i>Materials Chemistry and Physics</i> , 2015, 163, 569-580.	2.0	7
87	Optical properties of zirconium oxynitride films: The effect of composition, electronic and crystalline structures. <i>Applied Surface Science</i> , 2015, 358, 660-669.	3.1	19
88	Multichannel EEG with novel Ti/TiN dry electrodes. <i>Sensors and Actuators A: Physical</i> , 2015, 221, 139-147.	2.0	50
89	Evolution of the functional properties of titanium@silver thin films for biomedical applications: Influence of in-vacuum annealing. <i>Surface and Coatings Technology</i> , 2015, 261, 262-271.	2.2	19
90	Evolution of the surface plasmon resonance of Au:TiO ₂ nanocomposite thin films with annealing temperature. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	27

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91	Modulated IR radiometry for determining thermal properties and basic characteristics of titanium thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014, 32, 041511.	0.9	8
92	Effect of clustering on the surface plasmon band in thin films of metallic nanoparticles. <i>Journal of Nanophotonics</i> , 2014, 9, 093796.	0.4	9
93	Optical response of fractal aggregates of polarizable particles. , 2014, , .		0
94	Structural, chemical, optical and mechanical properties of Au doped AlN sputtered coatings. <i>Surface and Coatings Technology</i> , 2014, 255, 130-139.	2.2	9
95	Process monitoring during Al _N O _y deposition by reactive magnetron sputtering and correlation with the film's properties. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014, 32, 021307.	0.9	7
96	Electrochemical behaviour of nanocomposite Ag _x :TiN thin films for dry biopotential electrodes. <i>Electrochimica Acta</i> , 2014, 125, 48-57.	2.6	30
97	Ag:TiN nanocomposite thin films for bioelectrodes: The effect of annealing treatments on the electrical and mechanical behavior. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2014, 32, .	0.9	6
98	Growth and size distribution of Au nanoparticles in annealed Au/TiO ₂ thin films. <i>Thin Solid Films</i> , 2014, 553, 138-143.	0.8	12
99	Electrical characterization of Ag:TiN thin films produced by glancing angle deposition. <i>Materials Letters</i> , 2014, 115, 136-139.	1.3	23
100	Nanostructured functional Tiâ€“Ag electrodes for large deformation sensor applications. <i>Sensors and Actuators A: Physical</i> , 2014, 220, 204-212.	2.0	20
101	Protective Ag:TiO ₂ thin films for pressure sensors in orthopedic prosthesis: the importance of composition, structural and morphological features on the biological response of the coatings. <i>Journal of Materials Science: Materials in Medicine</i> , 2014, 25, 2069-2081.	1.7	14
102	Influence of the composition of titanium oxynitride layers on the fretting behavior of functionalized titanium substrates: PVD films versus surface laser treatments. <i>Surface and Coatings Technology</i> , 2014, 255, 146-152.	2.2	15
103	Comparison of three types of dry electrodes for electroencephalography. <i>Acta IMEKO (2012)</i> , 2014, 3, 33.	0.4	25
104	Tribocorrosion behavior of Tiâ€“Oâ€“N nanostructured thin films (black) for decorative applications. <i>Tribology International</i> , 2013, 68, 1-10.	3.0	6
105	TiAg _x thin films for lower limb prosthesis pressure sensors: Effect of composition and structural changes on the electrical and thermal response of the films. <i>Applied Surface Science</i> , 2013, 285, 10-18.	3.1	34
106	Nanocomposite Ag:TiN thin films for dry biopotential electrodes. <i>Applied Surface Science</i> , 2013, 285, 40-48.	3.1	38
107	Influence of stoichiometry and structure on the optical properties of AlN _x O _y films. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 015305.	1.3	24
108	Modulated IR Radiometry Applied to Study TiO_2 Coatings with Gold Nanocluster Inclusions. <i>International Journal of Thermophysics</i> , 2013, 34, 1597-1605.	1.0	3

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109	Relationship between electromechanical response and percolation threshold in carbon nanotube/poly(vinylidene fluoride) composites. Carbon, 2013, 61, 568-576.	5.4	53
110	Properties of tantalum oxynitride thin films produced by magnetron sputtering: The influence of processing parameters. Vacuum, 2013, 98, 63-69.	1.6	33
111	Development of a quasi-dry electrode for EEG recording. Sensors and Actuators A: Physical, 2013, 199, 310-317.	2.0	82
112	Development of tantalum oxynitride thin films produced by PVD: Study of structural stability. Applied Surface Science, 2013, 285, 19-26.	3.1	13
113	Influence of composition, bonding characteristics and microstructure on the electrochemical and optical stability of AlOxNy thin films. Electrochimica Acta, 2013, 106, 23-34.	2.6	11
114	Novel cap system with active actuators for rapid dry electroencephalography. Biomedizinische Technik, 2013, 58 Suppl 1, .	0.9	0
115	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
116	Novel flexible Dry multipin electrodes for EEG: Signal quality and interfacial impedance of Ti and TiN coatings. , 2013, 2013, 547-50.		5
117	TiO ₂ coatings with Au nanoparticles analysed by photothermal IR radiometry. Journal Physics D: Applied Physics, 2012, 45, 105301.	1.3	17
118	Piezoresistive response of Pluronic-wrapped single-wall carbon nanotube epoxy composites. Journal of Intelligent Material Systems and Structures, 2012, 23, 909-917.	1.4	8
119	Electrical properties of AlN _x O _y thin films prepared by reactive magnetron sputtering. Thin Solid Films, 2012, 520, 6709-6717.	0.8	24
120	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.	3.1	49
121	TiN _x coated polycarbonate for bio-electrode applications. Corrosion Science, 2012, 56, 49-57.	3.0	37
122	Effect of filler dispersion on the electromechanical response of epoxy/vapor-grown carbon nanofiber composites. Smart Materials and Structures, 2012, 21, 075008.	1.8	43
123	Signal Quality of Titanium and Titanium Nitride Coated Dry Polymer Electrodes. Biomedizinische Technik, 2012, 57, .	0.9	0
124	Electromechanical performance of poly(vinylidene fluoride)/carbon nanotube composites for strain sensor applications. Sensors and Actuators A: Physical, 2012, 178, 10-16.	2.0	124
125	Structural and optical studies of Au doped titanium oxide films. Nuclear Instruments & Methods in Physics Research B, 2012, 272, 61-65.	0.6	16
126	Analysis of multifunctional titanium oxycarbide films as a function of oxygen addition. Surface and Coatings Technology, 2012, 206, 2525-2534.	2.2	27

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127	Tuning of the surface plasmon resonance in TiO ₂ /Au thin films grown by magnetron sputtering: The effect of thermal annealing. <i>Journal of Applied Physics</i> , 2011, 109, .	1.1	74
128	Nanocomposite Thin Films Resulting from Au Nanoclusters Dispersed in Titanium Oxide Dielectric Matrixes: the Surface Plasmon Resonance Effect. , 2011, , .		3
129	Optical properties of AlN x O y thin films deposited by DC magnetron sputtering. , 2011, , .		3
130	Sputter deposition of thin films on different substrate materials analyzed by means of modulated IR radiometry. <i>Surface and Coatings Technology</i> , 2011, 205, S204-S208.	2.2	1
131	Structure and chemical bonds in reactively sputtered black Tiâ€“Câ€“Nâ€“O thin films. <i>Thin Solid Films</i> , 2011, 520, 144-151.	0.8	20
132	Plasma Surface Activation and TiN Coating of a TPV Substrate for Biomedical Applications. <i>Plasma Processes and Polymers</i> , 2011, 8, 1174-1183.	1.6	7
133	Preparation and characterization of CrN _x O _y thin films: The effect of composition and structural features on the electrical behavior. <i>Applied Surface Science</i> , 2011, 257, 9120-9124.	3.1	19
134	Friction and wear behaviours of Ti(C,O,N) dark decorative coatings. <i>Tribology International</i> , 2011, 44, 820-828.	3.0	6
135	Thermal stability, mechanical and corrosion behaviour of niobium-based coatings in the ternary system Nbâ€“Oâ€“N. <i>Thin Solid Films</i> , 2011, 519, 2457-2463.	0.8	12
136	Novel flexible dry PU/TiN-multipin electrodes: First application in EEG measurements. , 2011, 2011, 55-8.		9
137	Novel TiN_x-based biosignal electrodes for electroencephalography. <i>Measurement Science and Technology</i> , 2011, 22, 124007.	1.4	15
138	Novel Ti/TiN Dry Electrodes and Ag/AgCl: A Direct Comparison in Multichannel EEG. <i>IFMBE Proceedings</i> , 2011, , 1011-1014.	0.2	0
139	Modulated IR radiometry as a tool for the thickness control of coatings. <i>Journal of Physics: Conference Series</i> , 2010, 214, 012081.	0.3	3
140	Tribological characterisation of magnetron sputtered Ti(C, O, N) thin films. <i>International Journal of Materials and Product Technology</i> , 2010, 39, 186.	0.1	6
141	Development of new decorative coatings based on gold nanoparticles dispersed in an amorphous TiO ₂ dielectric matrix. <i>Surface and Coatings Technology</i> , 2010, 204, 1569-1575.	2.2	44
142	Surface modification of starch based biomaterials by oxygen plasma or UV-irradiation. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 21-32.	1.7	48
143	Nanoscale color control of TiO ₂ films with embedded Au nanoparticles. <i>Materials Letters</i> , 2010, 64, 2624-2626.	1.3	45
144	Influence of composition and structural properties in the tribological behaviour of magnetron sputtered Tiâ€“Siâ€“C nanostructured thin films, prepared at low temperature. <i>Wear</i> , 2010, 268, 552-557.	1.5	24

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145	Functional and optical properties of Au:TiO ₂ nanocomposite films: The influence of thermal annealing. Applied Surface Science, 2010, 256, 6536-6542.	3.1	43
146	AlN _x O _y thin films deposited by DC reactive magnetron sputtering. Applied Surface Science, 2010, 257, 1478-1483.	3.1	34
147	Tribocorrosion behaviour of TiC O thin films in bio-fluids. Electrochimica Acta, 2010, 56, 929-937.	2.6	55
148	Plasma Surface Modification of Polycarbonate and Poly(propylene) Substrates for Biomedical Electrodes. Plasma Processes and Polymers, 2010, 7, 676-686.	1.6	17
149	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
150	Structure and Chemical Bonds in Black Ti(C, N, O) Thin Films. , 2010, , .		0
151	Analysis of multifunctional oxycarbide and oxynitride thin films by modulated IR radiometry. Journal Physics D: Applied Physics, 2010, 43, 395301.	1.3	10
152	First principles study of point defects in titanium oxycarbide. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 165, 194-197.	1.7	18
153	Thickness Control of Coatings by Means of Modulated IR Radiometry. Plasma Processes and Polymers, 2009, 6, S592-S598.	1.6	8
154	The Role of Modulated IR Radiometry Measurements in the Characterization of Zr _{1-x} O _{1-x} N Thin Films. Plasma Processes and Polymers, 2009, 6, S760.	1.6	5
155	Study on the Thermal Stability of Ti(C,O,N) Decorative Coatings. Plasma Processes and Polymers, 2009, 6, S755.	1.6	7
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