

Np Barradas

List of Publications by Year in descending order

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321
papers

5,496
citations

94381

37
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175177

52
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325
all docs

325
docs citations

325
times ranked

4713
citing authors

#	ARTICLE	IF	CITATIONS
1	Elemental thin film depth profiles by ion beam analysis using simulated annealing - a new tool. Journal Physics D: Applied Physics, 2003, 36, R97-R126.	1.3	168
2	Advanced physics and algorithms in the IBA DataFurnace. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 1875-1879.	0.6	145
3	Accurate Determination of Quantity of Material in Thin Films by Rutherford Backscattering Spectrometry. Analytical Chemistry, 2012, 84, 6061-6069.	3.2	96
4	International Atomic Energy Agency intercomparison of ion beam analysis software. Nuclear Instruments & Methods in Physics Research B, 2007, 262, 281-303.	0.6	84
5	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, .	1.1	74
6	Graded selective coatings based on chromium and titanium oxynitride. Thin Solid Films, 2003, 442, 173-178.	0.8	70
7	Summary of "IAEA intercomparison of IBA software" Nuclear Instruments & Methods in Physics Research B, 2008, 266, 1338-1342.	0.6	69
8	Solar selective absorbers based on Al ₂ O ₃ :W cermet and AlSiN/AlSiON layers. Solar Energy Materials and Solar Cells, 2015, 137, 93-100.	3.0	68
9	Status of ion beam data analysis and simulation software. Nuclear Instruments & Methods in Physics Research B, 2006, 244, 436-456.	0.6	66
10	Effect of free layer thickness and shape anisotropy on the transfer curves of MgO magnetic tunnel junctions. Journal of Applied Physics, 2008, 103, .	1.1	65
11	Efficient dipole-dipole coupling of Mott-Wannier and Frenkel excitons in (Ga,In)N quantum well/polyfluorene semiconductor heterostructures. Physical Review B, 2007, 76, .	1.1	64
12	Magnetic anisotropy and temperature dependence of the hyperfine fields of Cd ¹¹¹ in single-crystalline cobalt. Physical Review B, 1993, 47, 8763-8768.	1.1	62
13	Accurate calculation of pileup effects in PIXE spectra from first principles. X-Ray Spectrometry, 2006, 35, 232-237.	0.9	58
14	Transport and photoluminescence of hydrogenated amorphous silicon-carbon alloys. Journal of Applied Physics, 1995, 78, 3164-3173.	1.1	56
15	Unambiguous automatic evaluation of multiple Ion Beam Analysis data with Simulated Annealing. Nuclear Instruments & Methods in Physics Research B, 1999, 149, 233-237.	0.6	56
16	Rutherford backscattering analysis of thin films and superlattices with roughness. Journal Physics D: Applied Physics, 2001, 34, 2109-2116.	1.3	56
17	Magnetoresistance and magnetic properties of NiFe/oxide/Co junctions prepared by magnetron sputtering. Journal of Applied Physics, 1994, 76, 6104-6106.	1.1	54
18	Optimization of nanocomposite Au/TiO ₂ thin films towards LSPR optical-sensing. Applied Surface Science, 2018, 438, 74-83.	3.1	54

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19	Ion beam analysis of fusion plasma-facing materials and components: facilities and research challenges. Nuclear Fusion, 2020, 60, 025001.	1.6	54
20	Long-term fuel retention in JET ITER-like wall. Physica Scripta, 2016, T167, 014075.	1.2	52
21	Fuel retention in JET ITER-Like Wall from post-mortem analysis. Journal of Nuclear Materials, 2015, 463, 961-965.	1.3	50
22	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
23	Structural and optical characterization of Eu-implanted GaN. Journal Physics D: Applied Physics, 2009, 42, 165103.	1.3	48
24	Global erosion and deposition patterns in JET with the ITER-like wall. Journal of Nuclear Materials, 2015, 463, 157-161.	1.3	48
25	Pt redistribution during Ni(Pt) silicide formation. Applied Physics Letters, 2008, 93, .	1.5	47
26	Overview of fuel inventory in JET with the ITER-like wall. Nuclear Fusion, 2017, 57, 086045.	1.6	47
27	Overview of the JET ITER-like wall divertor. Nuclear Materials and Energy, 2017, 12, 499-505.	0.6	46
28	Electrode roughness and interfacial mixing effects on the tunnel junction thermal stability. Journal of Applied Physics, 2001, 89, 6650-6652.	1.1	44
29	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
30	40% tunneling magnetoresistance after anneal at 380°C for tunnel junctions with iron oxide interface layers. Journal of Applied Physics, 2001, 89, 6665-6667.	1.1	41
31	Optical and structural analysis of solar selective absorbing coatings based on AlSiOx:W cermets. Solar Energy, 2017, 150, 335-344.	2.9	40
32	Processing and characterisation of sol-gel deposited Ta ₂ O ₅ and TiO ₂ -Ta ₂ O ₅ dielectric thin films. Solid-State Electronics, 1999, 43, 1095-1099.	0.8	38
33	Nanocomposite Ag:TiN thin films for dry biopotential electrodes. Applied Surface Science, 2013, 285, 40-48.	3.1	38
34	A design of selective solar absorber for high temperature applications. Solar Energy, 2018, 172, 177-183.	2.9	38
35	RBS/Simulated annealing analysis of buried SiCOx layers formed by implantation of O into cubic silicon carbide. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 1168-1171.	0.6	37
36	The RBS data furnace: Simulated annealing. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 1157-1162.	0.6	37

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37	RBS/simulated annealing analysis of iron-cobalt silicides. Nuclear Instruments & Methods in Physics Research B, 1998, 136-138, 1163-1167.	0.6	37
38	Simultaneous PIXE and RBS data analysis using Bayesian inference with the DataFurnace code. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 780-783.	0.6	37
39	Enhancement in the photocatalytic nature of nitrogen-doped PVD-grown titanium dioxide thin films. Journal of Applied Physics, 2009, 106, .	1.1	37
40	Development of a reference database for Ion Beam Analysis and future perspectives. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 2972-2978.	0.6	37
41	TiNx coated polycarbonate for bio-electrode applications. Corrosion Science, 2012, 56, 49-57.	3.0	37
42	Ion beam studies of TiNxOy thin films deposited by reactive magnetron sputtering. Surface and Coatings Technology, 2004, 180-181, 372-376.	2.2	36
43	Structural evolution of TiAlSiN nanocomposite coatings. Vacuum, 2009, 83, 1206-1212.	1.6	36
44	Validation of the Monte Carlo model supporting core conversion of the Portuguese Research Reactor (RPI) for neutron fluence rate determinations. Annals of Nuclear Energy, 2010, 37, 1139-1145.	0.9	36
45	Hydrogen in InN: A ubiquitous phenomenon in molecular beam epitaxy grown material. Applied Physics Letters, 2010, 96, .	1.5	36
46	RBS/simulated annealing analysis of silicide formation in Fe/Si systems. Nuclear Instruments & Methods in Physics Research B, 1998, 139, 235-238.	0.6	35
47	Artificial neural network algorithm for analysis of Rutherford backscattering data. Physical Review E, 2000, 62, 5818-5829.	0.8	35
48	Accurate determination of the stopping power of in Si using Bayesian inference. Nuclear Instruments & Methods in Physics Research B, 2002, 194, 15-25.	0.6	35
49	Double scattering in grazing angle Rutherford backscattering spectra. Nuclear Instruments & Methods in Physics Research B, 2004, 225, 318-330.	0.6	35
50	Surface analysis of tiles and samples exposed to the first JET campaigns with the ITER-like wall. Physica Scripta, 2014, T159, 014012.	1.2	35
51	Study of multilayer substrate surface roughness using RBS with improved depth resolution. Nuclear Instruments & Methods in Physics Research B, 1994, 94, 266-270.	0.6	34
52	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.	3.1	34
53	Resistance decrease in spin tunnel junctions by control of natural oxidation conditions. Applied Physics Letters, 2001, 79, 2219-2221.	1.5	33
54	LibCPIXE: A PIXE simulation open-source library for multilayered samples. Nuclear Instruments & Methods in Physics Research B, 2006, 249, 820-822.	0.6	33

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55	Properties of tantalum oxynitride thin films produced by magnetron sputtering: The influence of processing parameters. <i>Vacuum</i> , 2013, 98, 63-69.	1.6	33
56	Characterization of CoFeB electrodes for tunnel junctions. <i>Journal of Applied Physics</i> , 2005, 97, 10C916.	1.1	32
57	Roughness in GaN/InGaN films and multilayers determined with Rutherford backscattering. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2004, 217, 479-497.	0.6	30
58	Electrochemical behaviour of nanocomposite Agx:TiN thin films for dry biopotential electrodes. <i>Electrochimica Acta</i> , 2014, 125, 48-57.	2.6	30
59	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
60	Bayesian error analysis of Rutherford backscattering spectra. <i>Thin Solid Films</i> , 1999, 343-344, 31-34.	0.8	29
61	Improved ion beam analysis facilities at the University of Surrey. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1998, 136-138, 1229-1234.	0.6	28
62	Double scattering in RBS analysis of PtSi thin films on Si. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2005, 228, 378-382.	0.6	28
63	Assessment of erosion, deposition and fuel retention in the JET-ILW divertor from ion beam analysis data. <i>Nuclear Materials and Energy</i> , 2017, 12, 559-563.	0.6	28
64	Bonding structure and hydrogen content in silicon nitride thin films deposited by the electron cyclotron resonance plasma method. <i>Thin Solid Films</i> , 2004, 459, 203-207.	0.8	27
65	Characterization of paint layers by simultaneous self-consistent fitting of RBS/PIXE spectra using simulated annealing. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 1871-1874.	0.6	27
66	Analysis of multifunctional titanium oxycarbide films as a function of oxygen addition. <i>Surface and Coatings Technology</i> , 2012, 206, 2525-2534.	2.2	27
67	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
68	Annealing effect of magnetic tunnel junctions with one FeOx layer inserted at the Al ₂ O ₃ /CoFe interface. <i>Applied Physics Letters</i> , 2001, 78, 2911-2913.	1.5	26
69	A training algorithm for classification of high-dimensional data. <i>Neurocomputing</i> , 2003, 50, 461-472.	3.5	26
70	Flux effect on the ion-beam nitriding of austenitic stainless-steel AISI 304L. <i>Journal of Applied Physics</i> , 2005, 97, 124906.	1.1	26
71	Compositional analysis by RBS, XPS and EDX of ZnO:Al,Bi and ZnO:Ga,Bi thin films deposited by d.c. magnetron sputtering. <i>Vacuum</i> , 2019, 161, 268-275.	1.6	26
72	The composition and bonding structure of CNx films and their influence on the mechanical properties. <i>Thin Solid Films</i> , 1997, 308-309, 130-134.	0.8	25

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73	Comparison of measured and calculated dose for plasma source ion implantation into 3-D objects. Nuclear Instruments & Methods in Physics Research B, 1997, 127-128, 996-999.	0.6	25
74	Accurate depth profiling of complex optical coatings. Surface and Interface Analysis, 2000, 30, 237-242.	0.8	24
75	Stabilization of ZrO ₂ PVD coatings with Gd ₂ O ₃ . Surface and Coatings Technology, 2004, 188-189, 107-115.	2.2	24
76	ZrO _x N _y decorative thin films prepared by the reactive gas pulsing process. Journal Physics D: Applied Physics, 2009, 42, 195501.	1.3	24
77	Artificial neural networks for instantaneous analysis of real-time Rutherford backscattering spectra. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1676-1681.	0.6	24
78	Electrical properties of AlN _x O _y thin films prepared by reactive magnetron sputtering. Thin Solid Films, 2012, 520, 6709-6717.	0.8	24
79	Influence of stoichiometry and structure on the optical properties of AlN _x O _y films. Journal Physics D: Applied Physics, 2013, 46, 015305.	1.3	24
80	Determination of the ⁹ Be(3He,π) ¹¹ B (i=0,1,2,3) cross section at 135 Å° in the energy range 1â€“2.5MeV. Nuclear Instruments & Methods in Physics Research B, 2015, 346, 21-25.	0.6	24
81	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.	1.6	24
82	Photoelectrochemical Water Splitting: Thermal Annealing Challenges on Hematite Nanowires. Journal of Physical Chemistry C, 2020, 124, 12897-12911.	1.5	24
83	Detection angle resolved PIXE and the equivalent depth concept for thin film characterization. X-Ray Spectrometry, 2005, 34, 372-375.	0.9	23
84	Accurate simulation of backscattering spectra in the presence of sharp resonances. Nuclear Instruments & Methods in Physics Research B, 2006, 247, 381-389.	0.6	23
85	Introducing routine pulse height defect corrections in IBA. Nuclear Instruments & Methods in Physics Research B, 2008, 266, 1866-1870.	0.6	23
86	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.	2.2	23
87	Fitting of RBS data including roughness: Application to Co/Re multilayers. Nuclear Instruments & Methods in Physics Research B, 2002, 190, 247-251.	0.6	22
88	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.	3.1	22
89	Electric-field gradients at the In ¹¹¹ and Cd ¹¹¹ sites in undoped and Mg-doped LiNbO ₃ . Physical Review B, 1995, 51, 6208-6214.	1.1	21
90	Applying elastic backscattering spectrometry when the nuclear excitation function has a fine structure. Nuclear Instruments & Methods in Physics Research B, 2002, 190, 237-240.	0.6	21

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91	Tunnel junctions with AlN barriers and FeTaN electrodes. <i>Journal of Applied Physics</i> , 2001, 89, 6868-6870.	1.1	20
92	High Resolution and Differential PIXE combined with RBS, EBS and AFM analysis of magnesium titanate (MgTiO ₃) multilayer structures. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 1980-1985.	0.6	20
93	Optimisation of surface treatments of TiO ₂ :Nb transparent conductive coatings by a post-hot-wire annealing in a reducing H ₂ atmosphere. <i>Thin Solid Films</i> , 2014, 550, 404-412.	0.8	20
94	Multifunctional Ti-Me (Me=Al, Cu) thin film systems for biomedical sensing devices. <i>Vacuum</i> , 2015, 122, 353-359.	1.6	20
95	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
96	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
97	RBS and ERDA study of ion beam synthesised amorphous gallium nitride. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1999, 148, 463-467.	0.6	19
98	Preparation and characterization of Cr _{Nx} 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
99	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
100	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
101	Towards truly simultaneous PIXE and RBS analysis of layered objects in cultural heritage. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 261, 426-429.	0.6	18
102	Thin film depth profiling using simultaneous particle backscattering and nuclear resonance profiling. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010, 268, 1829-1832.	0.6	18
103	Low-temperature fabrication of layered self-organized Ge clusters by RF-sputtering. <i>Nanoscale Research Letters</i> , 2011, 6, 341.	3.1	18
104	The role and application of ion beam analysis for studies of plasma-facing components in controlled fusion devices. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2016, 371, 4-11.	0.6	18
105	Characterization of magnetron sputtered sub-stoichiometric CrAlSi _n x and CrAlSiO _y N _x coatings. <i>Surface and Coatings Technology</i> , 2017, 328, 134-141.	2.2	18
106	W/AlSiTiNx/SiAlTiOyNx/SiAlOx multilayered solar thermal selective absorber coating. <i>Solar Energy</i> , 2020, 207, 192-198.	2.9	18
107	Ion nitriding of Al: growth kinetics and characterisation of the nitride layer. <i>Surface and Coatings Technology</i> , 2001, 142-144, 1028-1033.	2.2	17
108	Hydrogenic retention of high-Z refractory metals exposed to ITER divertor-relevant plasma conditions. <i>Nuclear Fusion</i> , 2010, 50, 055004.	1.6	17

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109	Characterization of mercury gilding art objects by external proton beam. Nuclear Instruments & Methods in Physics Research B, 2011, 269, 3049-3053.	0.6	17
110	TiO ₂ coatings with Au nanoparticles analysed by photothermal IR radiometry. Journal Physics D: Applied Physics, 2012, 45, 105301.	1.3	17
111	On the growth kinetics of Ni(Pt) silicide thin films. Journal of Applied Physics, 2013, 113, .	1.1	17
112	CrAlSiN barrier layer to improve the thermal stability of W/CrAlSiNx/CrAlSiOyNx/SiAlOx solar thermal absorber. Solar Energy Materials and Solar Cells, 2019, 191, 235-242.	3.0	17
113	Exchange bias of MnPt/CoFe films prepared by ion beam deposition. Journal of Applied Physics, 2004, 95, 6317-6321.	1.1	16
114	Ion beam analysis of TiN/Ti multilayers deposited by magnetron sputtering. Nuclear Instruments & Methods in Physics Research B, 2004, 219-220, 763-767.	0.6	16
115	Exchange bias in ordered antiferromagnets by rapid thermal anneal without magnetic field. Journal Physics D: Applied Physics, 2005, 38, 2151-2155.	1.3	16
116	Annealing properties of ZnO films grown using diethyl zinc and tertiary butanol. Journal of Physics Condensed Matter, 2005, 17, 1719-1724.	0.7	16
117	Investigations of p-type signal for ZnO thin films grown on (100) GaAs substrates by pulsed laser deposition. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 1038-1041.	0.8	16
118	DT2, a PIXE spectra simulation and fitting package. X-Ray Spectrometry, 2008, 37, 100-102.	0.9	16
119	Structural and optical studies of Au doped titanium oxide films. Nuclear Instruments & Methods in Physics Research B, 2012, 272, 61-65.	0.6	16
120	Metallic filamentary conduction in valence change-based resistive switching devices: the case of TaO _x thin film with $x \approx 1$. Nanoscale, 2019, 11, 16978-16990.	2.8	16
121	Depth profiling InGaN/GaN multiple quantum wells by Rutherford backscattering: The role of intermixing. Applied Physics Letters, 2002, 81, 2950-2952.	1.5	15
122	Role of impurities and dislocations for the unintentional n-type conductivity in InN. Physica B: Condensed Matter, 2009, 404, 4476-4481.	1.3	15
123	Erosion and re-deposition processes in JET tiles studied with ion beams. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1991-1996.	0.6	15
124	Deposition of ¹³ C tracer in the JET MkII-HD divertor. Physica Scripta, 2011, T145, 014004.	1.2	15
125	Ion beam analysis of Cu(In,Ga)Se ₂ thin film solar cells. Applied Surface Science, 2015, 356, 631-638.	3.1	15
126	Simultaneous and consistent analysis of NRA, RBS and ERDA data with the IBA DataFurnace. Nuclear Instruments & Methods in Physics Research B, 2000, 161-163, 308-313.	0.6	14

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127	Study of roughness in TiO ₂ /Al ₂ O ₃ /Mo multilayer structures. Nuclear Instruments & Methods in Physics Research B, 2002, 188, 90-95.	0.6	14
128	Experimental stopping forces for He, C, O, Al and Si ions in Al ₂ O ₃ in the energy range of 40 eV–1250 keV/nucleon. Nuclear Instruments & Methods in Physics Research B, 2005, 239, 135-146.	0.6	14
129	Growth by LPCVD, crystallization and characterization of SiGe nanoparticles for nanoelectronic devices. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1284-1290.	0.8	14
130	Hydrogenic retention in tungsten exposed to ITER divertor relevant plasma flux densities. Journal of Nuclear Materials, 2009, 390-391, 610-613.	1.3	14
131	The effect of metal-rich growth conditions on the microstructure of Sc _x Ga _{1-x} N films grown using molecular beam epitaxy. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 2837-2842.	0.8	14
132	Structure dependent resistivity and dielectric characteristics of tantalum oxynitride thin films produced by magnetron sputtering. Applied Surface Science, 2015, 354, 298-305.	3.1	14
133	Functional behaviour of TiO ₂ films doped with noble metals. Surface Engineering, 2016, 32, 554-561.	1.1	14
134	Up-conversion emission of aluminosilicate and titania films doped with Er ³⁺ /Yb ³⁺ by ion implantation and sol-gel solution doping. Surface and Coatings Technology, 2018, 355, 162-168.	2.2	14
135	Evaluation of tritium retention in plasma facing components during JET tritium operations. Physica Scripta, 2021, 96, 124075.	1.2	14
136	High depth resolution Rutherford backscattering analysis of Si _{0.78} Ge _{0.22} /(001)Si superlattices. Nuclear Instruments & Methods in Physics Research B, 1998, 139, 239-243.	0.6	13
137	Simulated annealing analysis of nuclear reaction analysis measurements of polystyrene systems. Journal Physics D: Applied Physics, 1999, 32, 2964-2971.	1.3	13
138	Growth and characterisation of amorphous carbon films doped with nitrogen. Nuclear Instruments & Methods in Physics Research B, 2000, 161-163, 969-974.	0.6	13
139	High resolution backscattering studies of nanostructured magnetic and semiconducting materials. Nuclear Instruments & Methods in Physics Research B, 2005, 241, 454-458.	0.6	13
140	Incorporation of N in TiO ₂ films grown by DC-reactive magnetron sputtering. Nuclear Instruments & Methods in Physics Research B, 2012, 273, 109-112.	0.6	13
141	Development of tantalum oxynitride thin films produced by PVD: Study of structural stability. Applied Surface Science, 2013, 285, 19-26.	3.1	13
142	Tribological characterization of TiO ₂ /Au decorative thin films obtained by PVD magnetron sputtering technology. Wear, 2015, 330-331, 419-428.	1.5	13
143	Study of the electrical behavior of nanostructured TiAg thin films, prepared by Glancing Angle Deposition. Materials Letters, 2015, 157, 188-192.	1.3	13
144	Thin films of Au-Al ₂ O ₃ for plasmonic sensing. Applied Surface Science, 2020, 500, 144035.	3.1	13

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145	Effect of natural oxidation conditions on low resistance spin tunnel junctions. <i>Journal of Applied Physics</i> , 2002, 91, 8786.	1.1	12
146	Determination of non-Rutherford cross-sections from simple RBS spectra using Bayesian inference data analysis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2008, 266, 1180-1184.	0.6	12
147	Modifying polyester surfaces with incompatible polymer additives. <i>Reactive and Functional Polymers</i> , 2015, 89, 40-48.	2.0	12
148	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
149	Structural analysis of nanocrystalline SiC thin films grown on silicon by ECR plasma CVD. <i>Thin Solid Films</i> , 1999, 343-344, 292-294.	0.8	11
150	Can quantum dots be analysed with macrobeam RBS?. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 261, 435-438.	0.6	11
151	Holistic RBS+PIXE data reanalysis of SBT thin film samples. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 261, 439-442.	0.6	11
152	Memory effect on CdSe nanocrystals embedded in SiO ₂ matrix. <i>Solid State Communications</i> , 2008, 148, 105-108.	0.9	11
153	Charging effects in CdSe nanocrystals embedded in SiO ₂ matrix produced by rf magnetron sputtering. <i>Microelectronic Engineering</i> , 2008, 85, 2374-2377.	1.1	11
154	Structural and optical properties of nitrogen doped ZnO films. <i>Vacuum</i> , 2009, 83, 1274-1278.	1.6	11
155	N-Doped Photocatalytic Titania Thin Films on Active Polymer Substrates. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 1072-1077.	0.9	11
156	Mn-doped ZnO nanocrystals embedded in Al ₂ O ₃ : structural and electrical properties. <i>Nanotechnology</i> , 2010, 21, 505705.	1.3	11
157	On the formation of an interface amorphous layer in nanostructured ferroelectric Ba _{0.8} Sr _{0.2} TiO ₃ thin films integrated on Pt+Si and its effect on the electrical properties. <i>Applied Surface Science</i> , 2013, 278, 136-141.	3.1	11
158	Influence of composition, bonding characteristics and microstructure on the electrochemical and optical stability of AlO _x N _y thin films. <i>Electrochimica Acta</i> , 2013, 106, 23-34.	2.6	11
159	Deposition in the tungsten divertor during the 2011+2016 campaigns in JET with ITER-like wall. <i>Physica Scripta</i> , 2020, T171, 014044.	1.2	11
160	International Atomic Energy Agency inter-comparison of particle induced gamma-ray emission codes for bulk samples. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2020, 468, 37-47.	0.6	11
161	Atomic environment and interfacial structural order of TiAlN/Mo multilayers. <i>Surface and Coatings Technology</i> , 2004, 187, 393-398.	2.2	10
162	Growth of concentrated GaInSb alloys with improved chemical homogeneity at low and variable pulling rates. <i>Journal of Crystal Growth</i> , 2005, 283, 124-133.	0.7	10

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163	Dependence of relative intensity of L1 sub-shell X-rays on ion beam energy. Nuclear Instruments & Methods in Physics Research B, 2007, 261, 121-124.	0.6	10
164	Stopping power of 11B in Si and TiO ₂ measured with a bulk sample method and Bayesian inference data analysis. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 1768-1771.	0.6	10
165	CdTe detector use for PIXE characterization of TbCoFe thin films. Nuclear Instruments & Methods in Physics Research B, 2010, 268, 2010-2014.	0.6	10
166	Al _{1-x} In _x N/GaN bilayers: Structure, morphology, and optical properties. Physica Status Solidi (B): Basic Research, 2010, 247, 1740-1746.	0.7	10
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