Hugo Ãguas

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/1125239/publications.pdf

Version: 2024-02-01

187	4,216	101543	144013
papers	citations	36	57
		h-index	g-index

187	187	187	4820
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Influence of the deposition pressure on the properties of transparent and conductive ZnO:Ga thin-film produced by r.f. sputtering at room temperature. Thin Solid Films, 2003, 427, 401-405.	1.8	277
2	Highly stable transparent and conducting gallium-doped zinc oxide thin films for photovoltaic applications. Solar Energy Materials and Solar Cells, 2008, 92, 1605-1610.	6.2	151
3	Multifunctional cellulose-paper for light harvesting and smart sensing applications. Journal of Materials Chemistry C, 2018, 6, 3143-3181.	5.5	147
4	High field-effect mobility zinc oxide thin film transistors produced at room temperature. Journal of Non-Crystalline Solids, 2004, 338-340, 806-809.	3.1	124
5	High quality conductive gallium-doped zinc oxide films deposited at room temperature. Thin Solid Films, 2004, 451-452, 443-447.	1.8	103
6	Thin Film Silicon Photovoltaic Cells on Paper for Flexible Indoor Applications. Advanced Functional Materials, 2015, 25, 3592-3598.	14.9	101
7	Photonic-structured TiO2 for high-efficiency, flexible and stable Perovskite solar cells. Nano Energy, 2019, 59, 91-101.	16.0	100
8	Growth of ZnO:Ga thin films at room temperature on polymeric substrates: thickness dependence. Thin Solid Films, 2003, 442, 121-126.	1.8	97
9	Influence of the layer thickness in plasmonic gold nanoparticles produced by thermal evaporation. Scientific Reports, 2013, 3, 1469.	3.3	97
10	New challenges on gallium-doped zinc oxide films prepared by r.f. magnetron sputtering. Thin Solid Films, 2003, 442, 102-106.	1.8	92
11	Office paper decorated with silver nanostars - an alternative cost effective platform for trace analyte detection by SERS. Scientific Reports, 2017, 7, 2480.	3.3	86
12	Transparent, conductive ZnO:Al thin film deposited on polymer substrates by RF magnetron sputtering. Surface and Coatings Technology, 2002, 151-152, 247-251.	4.8	67
13	Silicon thin film solar cells on commercial tiles. Energy and Environmental Science, 2011, 4, 4620.	30.8	65
14	Mapping the Electrical Properties of ZnOâ€Based Transparent Conductive Oxides Grown at Room Temperature and Improved by Controlled Postdeposition Annealing. Advanced Electronic Materials, 2016, 2, 1500287.	5.1	64
15	Piezoelectricity Enhancement of Nanogenerators Based on PDMS and ZnSnO₃ Nanowires through Microstructuration. ACS Applied Materials & Interfaces, 2020, 12, 18421-18430.	8.0	63
16	Broadband photocurrent enhancement in a-Si:H solar cells with plasmonic back reflectors. Optics Express, 2014, 22, A1059.	3.4	60
17	Design of optimized wave-optical spheroidal nanostructures for photonic-enhanced solar cells. Nano Energy, 2016, 26, 286-296.	16.0	60
18	Inkjet printed and â€œdoctor bladeâ€•TiO2 photodetectors for DNA biosensors. Biosensors and Bioelectronics, 2010, 25, 1229-1234.	10.1	59

#	Article	IF	Citations
19	Label-Free Nanosensing Platform for Breast Cancer Exosome Profiling. ACS Sensors, 2019, 4, 2073-2083.	7.8	57
20	New developments in gallium doped zinc oxide deposited on polymeric substrates by RF magnetron sputtering. Surface and Coatings Technology, 2004, 180-181, 20-25.	4.8	56
21	Piezoresistive Eâ€Skin Sensors Produced with Laser Engraved Molds. Advanced Electronic Materials, 2018, 4, 1800182.	5.1	56
22	Highly efficient nanoplasmonic SERS on cardboard packaging substrates. Nanotechnology, 2014, 25, 415202.	2.6	54
23	Nanostructured silicon and its application to solar cells, position sensors and thin film transistors. Philosophical Magazine, 2009, 89, 2699-2721.	1.6	53
24	Broadband light trapping in thin film solar cells with self-organized plasmonic nano-colloids. Nanotechnology, 2015, 26, 135202.	2.6	51
25	Polycrystalline intrinsic zinc oxide to be used in transparent electronic devices. Thin Solid Films, 2005, 487, 212-215.	1.8	50
26	Passivation of Interfaces in Thin Film Solar Cells: Understanding the Effects of a Nanostructured Rear Point Contact Layer. Advanced Materials Interfaces, 2018, 5, 1701101.	3.7	50
27	Influence of the Substrate on the Morphology of Self-Assembled Silver Nanoparticles by Rapid Thermal Annealing. Journal of Physical Chemistry C, 2016, 120, 18235-18242.	3.1	47
28	Digital Microfluidics for Nucleic Acid Amplification. Sensors, 2017, 17, 1495.	3.8	47
29	Direct growth of plasmonic nanorod forests on paper substrates for low-cost flexible 3D SERS platforms. Flexible and Printed Electronics, 2017, 2, 014001.	2.7	46
30	Bio-microfluidic platform for gold nanoprobe based DNA detectionâ€"application to Mycobacterium tuberculosis. Biosensors and Bioelectronics, 2013, 48, 87-93.	10.1	42
31	Colloidal-lithographed TiO₂ photonic nanostructures for solar cell light trapping. Journal of Materials Chemistry C, 2017, 5, 6852-6861.	5.5	41
32	Optimum Luminescent Down-Shifting Properties for High Efficiency and Stable Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 2930-2938.	5.1	41
33	High UV and Sunlight Photocatalytic Performance of Porous ZnO Nanostructures Synthesized by a Facile and Fast Microwave Hydrothermal Method. Materials, 2021, 14, 2385.	2.9	41
34	3D ZnO/Ag Surface-Enhanced Raman Scattering on Disposable and Flexible Cardboard Platforms. Materials, 2017, 10, 1351.	2.9	40
35	Paper-Based SERS Platform for One-Step Screening of Tetracycline in Milk. Scientific Reports, 2019, 9, 17922.	3.3	38
36	Performances of hafnium oxide produced by radio frequency sputtering for gate dielectric application. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 109, 89-93.	3.5	36

#	Article	IF	Citations
37	Optimal-Enhanced Solar Cell Ultra-thinning with Broadband Nanophotonic Light Capture. IScience, 2018, 3, 238-254.	4.1	35
38	Transduction Mechanisms, Micro-Structuring Techniques, and Applications of Electronic Skin Pressure Sensors: A Review of Recent Advances. Sensors, 2020, 20, 4407.	3.8	35
39	Polycrystalline silicon obtained by metal induced crystallization using different metals. Thin Solid Films, 2004, 451-452, 334-339.	1.8	34
40	A Digital Microfluidics Platform for Loop-Mediated Isothermal Amplification Detection. Sensors, 2017, 17, 2616.	3.8	34
41	Design of wave-optical structured substrates for ultra-thin perovskite solar cells. Applied Materials Today, 2020, 20, 100720.	4.3	34
42	Flexible a-Si:H Position-Sensitive Detectors. Proceedings of the IEEE, 2005, 93, 1281-1286.	21.3	33
43	Large Area Deposition of Polymorphous Silicon by Plasma Enhanced Chemical Vapor Deposition at 27.12 MHz and 13.56 MHz. Japanese Journal of Applied Physics, 2003, 42, 4935-4942.	1.5	31
44	Highly conductive p-type nanocrystalline silicon films deposited by RF-PECVD using silane and trimethylboron mixtures at high pressure. Vacuum, 2009, 83, 1253-1256.	3.5	31
45	Inkjet printed highly porous TiO 2 films for improved electrical properties of photoanode. Journal of Colloid and Interface Science, 2016, 465, 208-214.	9.4	30
46	Optical and structural analysis of porous silicon coated with GZO films using rf magnetron sputtering. Thin Solid Films, 2007, 515, 8664-8669.	1.8	28
47	Paper-Based In-Situ Gold Nanoparticle Synthesis for Colorimetric, Non-Enzymatic Glucose Level Determination. Nanomaterials, 2020, 10, 2027.	4.1	28
48	New insights on large area flexible position sensitive detectors. Journal of Non-Crystalline Solids, 2002, 299-302, 1272-1276.	3.1	27
49	Solar cells for self-sustainable intelligent packaging. Journal of Materials Chemistry A, 2015, 3, 13226-13236.	10.3	27
50	Influence of postâ€deposition annealing on electrical and optical properties of ZnOâ€based TCOs deposited at room temperature. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 2317-2328.	1.8	26
51	Low-temperature spray-coating of high-performing ZnO:Al films for transparent electronics. Journal of Analytical and Applied Pyrolysis, 2017, 127, 299-308.	5.5	26
52	Ultra-fast plasmonic back reflectors production for light trapping in thin Si solar cells. Solar Energy, 2018, 174, 786-792.	6.1	26
53	Lightwave trapping in thin film solar cells with improved photonic-structured front contacts. Journal of Materials Chemistry C, 2019, 7, 6456-6464.	5.5	26
54	E-Skin Bimodal Sensors for Robotics and Prosthesis Using PDMS Molds Engraved by Laser. Sensors, 2019, 19, 899.	3.8	26

#	Article	IF	Citations
55	Study of the stabilizer influence on the structural and optical properties of sol-gel spin coated zinc oxide films. Materials Science in Semiconductor Processing, 2018, 74, 80-87.	4.0	24
56	Influence of the Strain on the Electrical Resistance of Zinc Oxide Doped Thin Film Deposited on Polymer Substrates. Advanced Engineering Materials, 2002, 4, 610-612.	3.5	23
57	Polycrystalline silicon obtained by gold metal induced crystallization. Journal of Non-Crystalline Solids, 2004, 338-340, 178-182.	3.1	22
58	Role of buffer layer on the performances of amorphous silicon solar cells with incorporated nanoparticles produced by plasma enhanced chemical vapor deposition at 27.12 MHz. Thin Solid Films, 2005, 487, 170-173.	1.8	21
59	Multifunctional microfluidic chip for optical nanoprobe based RNA detection â€“ application to Chronic Myeloid Leukemia. Scientific Reports, 2018, 8, 381.	3.3	21
60	Colloidal Lithography for Photovoltaics: An Attractive Route for Light Management. Nanomaterials, 2021, 11, 1665.	4.1	21
61	Characterization of silicon carbide thin films prepared by VHF-PECVD technology. Journal of Non-Crystalline Solids, 2004, 338-340, 530-533.	3.1	20
62	Flexible thin film solar cells on cellulose substrates with improved light management. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700070.	1.8	19
63	Design and Simple Assembly of Gold Nanostar Bioconjugates for Surface-Enhanced Raman Spectroscopy Immunoassays. Nanomaterials, 2019, 9, 1561.	4.1	19
64	Fast Prototyping Microfluidics: Integrating Droplet Digital Lamp for Absolute Quantification of Cancer Biomarkers. Sensors, 2020, 20, 1624.	3.8	19
65	Selfâ€Cleaned Photonicâ€Enhanced Solar Cells with Nanostructured Paryleneâ€C. Advanced Materials Interfaces, 2020, 7, 2000264.	3.7	19
66	Ag and Sn Nanoparticles to Enhance the Near-Infrared Absorbance of a-Si:H Thin Films. Plasmonics, 2014, 9, 1015-1023.	3.4	18
67	All-Thin-Film Perovskite/Câ€“Si Four-Terminal Tandems: Interlayer and Intermediate Contacts Optimization. ACS Applied Energy Materials, 2019, 2, 3979-3985.	5.1	18
68	Reusable and highly sensitive SERS immunoassay utilizing gold nanostars and a cellulose hydrogel-based platform. Journal of Materials Chemistry B, 2021, 9, 7516-7529.	5.8	18
69	Silicon thin films prepared in the transition region and their use in solar cells. Solar Energy Materials and Solar Cells, 2006, 90, 3001-3008.	6.2	17
70	Optoelectronic Devices from Bacterial NanoCellulose. , 2016, , 179-197.		17
71	Photonic-structured TCO front contacts yielding optical and electrically enhanced thin-film solar cells. Solar Energy, 2020, 196, 92-98.	6.1	17
72	a-Si:H interface optimisation for thin film position sensitive detectors produced on polymeric substrates. Journal of Non-Crystalline Solids, 2002, 299-302, 1289-1294.	3.1	16

#	Article	IF	Citations
73	Linearity and sensitivity of MIS position sensitive detectors. Journal of Materials Science, 2005, 40, 1377-1381.	3.7	16
74	Oxidation and Strain in Free-standing Silicon Nanocrystals. Physical Review Applied, 2019, 11, .	3.8	16
75	Nanocrystalline thin film silicon solar cells: A deeper look into p/i interface formation. Thin Solid Films, 2015, 591, 25-31.	1.8	15
76	Vacuum solid-state ion-conducting silver source for application in field emission electric propulsion systems. Vacuum, 2016, 131, 252-258.	3.5	15
77	Colloidal-structured metallic micro-grids: High performance transparent electrodes in the red and infrared range. Solar Energy Materials and Solar Cells, 2019, 197, 7-12.	6.2	15
78	High-performance wide bandgap perovskite solar cells fabricated in ambient high-humidity conditions. Materials Advances, 2021, 2, 6344-6355.	5.4	15
79	Production and characterization of large area flexible thin film position sensitive detectors. Thin Solid Films, 2001, 383, 310-313.	1.8	14
80	Thin film position sensitive detectors based on pin amorphous silicon carbide structures. Applied Surface Science, 2001, 184, 443-447.	6.1	14
81	Experimental optimization of a passive planar rhombic micromixer with obstacles for effective mixing in a short channel length. RSC Advances, 2014, 4, 56013-56025.	3.6	14
82	Time-resolved luminescence studies of Eu3+ in soda-lime silicate glasses. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 134, 29-38.	2.3	14
83	Polymorphous Silicon Films Deposited at 27.12 MHz. Chemical Vapor Deposition, 2003, 9, 333-337.	1.3	13
84	Amorphous silicon position sensitive detectors applied to micropositioning. Journal of Non-Crystalline Solids, 2006, 352, 1792-1796.	3.1	13
85	Nanostructure characterization of high k materials by spectroscopic ellipsometry. Applied Surface Science, 2006, 253, 339-343.	6.1	13
86	An integrated approach for assessing the bioreceptivity of glazed tiles to phototrophic microorganisms. Biofouling, 2016, 32, 243-259.	2.2	13
87	A statistics modeling approach for the optimization of thin film photovoltaic devices. Solar Energy, 2017, 144, 232-243.	6.1	13
88	Raman spectrum of nanocrystals: Phonon dispersion splitting and anisotropy. Physical Review B, 2018, 98, .	3.2	13
89	Role of ion bombardment on the properties of a-Si:H films. Vacuum, 2001, 60, 247-254.	3.5	12
90	Influence of the deposition conditions on the properties of titanium oxide produced by r.f. magnetron sputtering. Materials Science in Semiconductor Processing, 2004, 7, 243-247.	4.0	12

#	Article	IF	Citations
91	Study of nanostructured silicon by hydrogen evolution and its application in pâ€“iâ€“n solar cells. Journal of Non-Crystalline Solids, 2006, 352, 1945-1948.	3.1	12
92	Hydrogen plasma treatment of very thin p-type nanocrystalline Si films grown by RF-PECVD in the presence of B(CH3)3. Science and Technology of Advanced Materials, 2012, 13, 045004.	6.1	12
93	The effects of argon and helium dilution in the growth of nc-Si:H thin films by plasma-enhanced chemical vapor deposition. Journal of Materials Science, 2018, 53, 3672-3681.	3.7	12
94	Surface modification of a new flexible substrate based on hydroxypropylcellulose for optoelectronic applications. Thin Solid Films, 2003, 442, 127-131.	1.8	11
95	Spectroscopic ellipsometry study of Coâ€doped TiO₂ films. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 880-883.	1.8	11
96	Porous PDMS conformable coating for high power output carbon fibers/ZnO nanorod-based triboelectric energy harvesters. Nano Energy, 2021, 90, 106582.	16.0	11
97	32 linear array position sensitive detector based on NIP and hetero a-Si:H microdevices. Journal of Non-Crystalline Solids, 2002, 299-302, 1283-1288.	3.1	10
98	Spectroscopic ellipsometry study of amorphous silicon anodically oxidised. Thin Solid Films, 2003, 427, 345-349.	1.8	10
99	Super linear position sensitive detectors using MIS structures. Optical Materials, 2005, 27, 1088-1092.	3.6	10
100	Metal induced crystallization: Gold versus aluminium. Journal of Materials Science, 2005, 40, 1387-1391.	3.7	10
101	Study of environmental degradation of silver surface. Physica Status Solidi C: Current Topics in Solid State Physics, 2008, 5, 1215-1218.	0.8	10
102	Optimization of ZnO Nanorods Concentration in a Micro-Structured Polymeric Composite for Nanogenerators. Chemosensors, 2021, 9, 27.	3.6	10
103	Light management with quantum nanostructured dots-in-host semiconductors. Light: Science and Applications, 2021, 10, 231.	16.6	10
104	Study of the effect of different plasma-enhanced chemical vapour deposition reactor configurations on the properties of hydrogenated amorphous silicon thin films. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 475-486.	0.6	9
105	Characterization of the density of states of polymorphous silicon films produced at 13.56 and 27.12 MHz using CPM and SCLC techniques. Journal of Non-Crystalline Solids, 2004, 338-340, 206-210.	3.1	9
106	Single nucleotide polymorphism detection using gold nanoprobes and bioâ€microfluidic platform with embedded microlenses. Biotechnology and Bioengineering, 2015, 112, 1210-1219.	3.3	9
107	Digital Microfluidics-Powered Real-Time Monitoring of Isothermal DNA Amplification of Cancer Biomarker. Biosensors, 2022, 12, 201.	4.7	9
108	Photonic-Structured Perovskite Solar Cells: Detailed Optoelectronic Analysis. ACS Photonics, 2022, 9, 2408-2421.	6.6	9

#	Article	IF	Citations
109	Plasma diagnostics of a PECVD system using different R.F. electrode configurations. Vacuum, 2000, 56, 31-37.	3.5	8
110	Role of ion bombardment and plasma impedance on the performances presented by undoped a-Si:H films. Thin Solid Films, 2001, 383, 165-168.	1.8	8
111	High quality a-Si:H films for MIS device applications. Thin Solid Films, 2002, 403-404, 26-29.	1.8	8
112	Polymorphous silicon deposited in large area reactor at 13 and 27 MHz. Thin Solid Films, 2003, 427, 6-10.	1.8	8
113	Spectroscopic ellipsometry study of nickel induced crystallization of a-Si. Journal of Non-Crystalline Solids, 2006, 352, 1204-1208.	3.1	8
114	Characterisation of Archaeological High-tin Bronze Corrosion Structures. Studies in Conservation, 2022, 67, 222-236.	1.1	8
115	Characteristics of a linear array of a-Si:H thin film position sensitive detector. Thin Solid Films, 1999, 337, 222-225.	1.8	7
116	Role of the hot wire filament temperature on the structure and morphology of the nanocrystalline silicon p-doped films. Applied Surface Science, 1999, 144-145, 690-696.	6.1	7
117	Correlation between a-Si:H surface oxidation process and the performance of MIS structures. Thin Solid Films, 2001, 383, 185-188.	1.8	7
118	Mass spectroscopy analysis during the deposition of a-SiC:H and a-C:H films produced by hot wire and hot wire plasma-assisted techniques. Applied Surface Science, 2001, 184, 60-65.	6.1	7
119	n-PS/a-Si:H heterojunction for device application. Journal of Non-Crystalline Solids, 2008, 354, 2632-2636.	3.1	7
120	E-Skin Pressure Sensors Made by Laser Engraved PDMS Molds. Proceedings (mdpi), 2018, 2, 1039.	0.2	7
121	Wave-optical front structures on silicon and perovskite thin-film solar cells. , 2020, , 315-354.		7
122	Fast and cheap method to qualitatively measure the thickness and uniformity of ZrO2 thin films. Materials Science in Semiconductor Processing, 2001, 4, 319-321.	4.0	6
123	Dependence of the Strains and Residual Mechanical Stresses on the Performances Presented by a-Si:H Thin Film Position Sensors. Advanced Engineering Materials, 2002, 4, 612-616.	3.5	6
124	ZnO:Ga Thin Films Produced by RF Sputtering at Room Temperature: Effect of the Power Density. Materials Science Forum, 2004, 455-456, 12-15.	0.3	6
125	Effect of the discharge frequency and impedance on the structural properties of polymorphous silicon. Thin Solid Films, 2004, 451-452, 264-268.	1.8	6
126	Flexible position sensitive photodetectors based on a-Si:H heterostructures. Sensors and Actuators A: Physical, 2004, 116, 119-124.	4.1	6

#	Article	IF	Citations
127	Multifunctional Thin Film Zinc Oxide Semiconductors: Application to Electronic Devices. Materials Science Forum, 2006, 514-516, 3-7.	0.3	6
128	Role of a disperse carbon interlayer on the performances of tandem a-Si solar cells. Science and Technology of Advanced Materials, 2013, 14, 045009.	6.1	6
129	Hybrid Microfluidic Platform for Multifactorial Analysis Based on Electrical Impedance, Refractometry, Optical Absorption and Fluorescence. Micromachines, 2016, 7, 181.	2.9	6
130	Soft-Microstructured Transparent Electrodes for Photonic-Enhanced Flexible Solar Cells. Micro, 2021, 1, 215-227.	2.0	6
131	New nanostructured silicon films grown by PECVD technique under controlled powder formation conditions. Solar Energy, 2001, 69, 263-269.	6.1	5
132	Towards the improvement of the stability of a-Si:H pin devices. Solar Energy, 2001, 69, 257-262.	6.1	5
133	Amorphous silicon-based PINIP structure for color sensor. Thin Solid Films, 2005, 487, 268-270.	1.8	5
134	Role of Trimethylboron to Silane Ratio on the Properties of <I>p</I>-Type Nanocrystalline Silicon Thin Film Deposited by Radio Frequency Plasma Enhanced Chemical Vapour Deposition. Journal of Nanoscience and Nanotechnology, 2010, 10, 2547-2551.	0.9	5
135	Influence of the Plasma Regime on the Structural, Optical, Electrical and Morphological Properties of a-Si:H Thin Films. Materials Science Forum, 2001, 382, 11-20.	0.3	4
136	Engineering of a-Si:H device stability by suitable design of interfaces. Solar Energy Materials and Solar Cells, 2002, 73, 39-49.	6.2	4
137	Investigation of a-Si:H 1D MIS position sensitive detectors for application in 3D sensors. Journal of Non-Crystalline Solids, 2006, 352, 1787-1791.	3.1	4
138	Metal-ferroelectric thin film devices. Journal of Non-Crystalline Solids, 2002, 299-302, 1311-1315.	3.1	3
139	Influence of a DC grid on silane r.f. plasma properties. Vacuum, 2002, 64, 387-392.	3.5	3
140	Effect of Annealing on Gold Rectifying Contacts in Amorphous Silicon. Materials Science Forum, 2004, 455-456, 96-99.	0.3	3
141	3 dimensional polymorphous silicon based metal-insulator-semiconductor position sensitive detectors. Thin Solid Films, 2007, 515, 7530-7533.	1.8	3
142	Color sensing ability of an amorphous silicon position sensitive detector array system. Sensors and Actuators A: Physical, 2014, 205, 26-37.	4.1	3
143	Porous ZnO Nanostructures Synthesized by Microwave Hydrothermal Method for Energy Harvesting Applications. , 0, , .		3
144	Recombination of photo-generated charge carriers in H-terminated and (photo-)oxidized silicon nanoparticles. Applied Materials Today, 2021, 23, 101071.	4.3	3

#	Article	IF	Citations
145	Eâ€Skin Piezoresistive Pressure Sensor Combining Laser Engraving and Shrinking Polymeric Films for Health Monitoring Applications. Advanced Materials Interfaces, 2021, 8, 2100877.	3.7	3
146	Mortars from the Palace of Knossos in Crete, Greece: A Multi-Analytical Approach. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.0	3
147	Highly Conductive/Transparent ZnO:Al Thin Films Deposited at Room Temperature by rf Magnetron Sputtering. Key Engineering Materials, 2002, 230-232, 571-574.	0.4	2
148	Role of the i layer surface properties on the performance of a-Si:H Schottky barrier photodiodes. Sensors and Actuators A: Physical, 2002, 99, 220-223.	4.1	2
149	Effect of an interfacial oxide layer in the annealing behaviour of Au/a-Si:H MIS photodiodes. Journal of Non-Crystalline Solids, 2004, 338-340, 810-813.	3.1	2
150	Characterization of silicon carbide thin films and their use in colour sensor. Solar Energy Materials and Solar Cells, 2005, 87, 343-348.	6.2	2
151	Insights on Amorphous Silicon Nip and MIS 3D Position Sensitive Detectors. Materials Science Forum, 2006, 514-516, 13-17.	0.3	2
152	Photovoltaics: Passivation of Interfaces in Thin Film Solar Cells: Understanding the Effects of a Nanostructured Rear Point Contact Layer (Adv. Mater. Interfaces 2/2018). Advanced Materials Interfaces, 2018, 5, 1870007.	3.7	2
153	Solar Cells: Selfâ€Cleaned Photonicâ€Enhanced Solar Cells with Nanostructured Paryleneâ€C (Adv. Mater.) Tj ETQq1 1 0.784314 rgBT	3.7	2
154	Size-dependent critical transition in the origin of light emission from coreâ€“shell Siâ€“SiO2 nanoparticles. Journal of Materials Chemistry C, 2020, 8, 9012-9023.	5.5	2
155	Correlation between the carbon and hydrogen contents with the gas species and the plasma impedance of silicon carbide films produced by PECVD technique. Applied Surface Science, 2001, 184, 101-106.	6.1	1
156	Silicon nanostructure thin film materials. Vacuum, 2002, 64, 219-226.	3.5	1
157	Composition, Structure and Optical Characteristics of Polymorphous Silicon Films Deposited by PECVD at 27.12 MHz. Materials Science Forum, 2004, 455-456, 100-103.	0.3	1
158	Growth of Polymorphous/Nanocrystalline Silicon Films Deposited by PECVD at 13.56 MHz. Materials Science Forum, 2004, 455-456, 532-535.	0.3	1
159	Batch Processing Method to Deposit a-Si:H Films by PECVD. Materials Science Forum, 2004, 455-456, 104-107.	0.3	1
160	Silicon Etching in CF₄/O₂ and SF₆ Atmospheres. Materials Science Forum, 2004, 455-456, 120-123.	0.3	1
161	Role of the rf frequency on the structure and composition of polymorphous silicon films. Journal of Non-Crystalline Solids, 2004, 338-340, 183-187.	3.1	1
162	Study of a-SiC:H buffer layer on nc-Si/a-Si:H solar cells deposited by PECVD technique. , 0, , .		1

#	Article	IF	Citations
163	Metal contamination detection in nickel induced crystallized silicon by spectroscopic ellipsometry. Journal of Non-Crystalline Solids, 2008, 354, 2319-2323.	3.1	1
164	Surface-enhanced Raman scattering paper-based analytical devices. , 2022, , 117-167.		1
165	Digital Microfluidics for Amplification Monitoring of Cancer Biomarkers. , 0, , .		1
166	Two Step Process for the Growth of a Thin Layer of Silicon Dioxide for Tunneling Effect Applications. Materials Research Society Symposia Proceedings, 2000, 619, 179.	0.1	0
167	Study of the effect of different plasma-enhanced chemical vapour deposition reactor configurations on the properties of hydrogenated amorphous silicon thin films. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 2000, 80, 475-486.	0.6	0
168	Thin Film Metal Oxide Semiconductors Deposited on Polymeric Substrates. Materials Research Society Symposia Proceedings, 2001, 666, 1131.	0.1	0
169	Characterization of Zinc Oxide Thin Films Deposited by rf Magnetron Sputtering on Mylar Substrates. Materials Research Society Symposia Proceedings, 2001, 666, 3211.	0.1	0
170	Zinc Oxide Thin Films Deposited by RF Magnetron Sputtering on Mylar Substrates at Room Temperature. Materials Research Society Symposia Proceedings, 2001, 685, 1.	0.1	0
171	Thin Film Metal Oxide Semiconductors Deposited on Polymeric Substrates. Materials Research Society Symposia Proceedings, 2001, 685, 1.	0.1	0
172	Silicon Films Produced by PECVD under Powder Formation Conditions. Materials Science Forum, 2001, 382, 21-30.	0.3	0
173	Influence of the Plasma Regime on the Structural, Optical and Transport Properties of a-Si:H Thin Films. Key Engineering Materials, 2002, 230-232, 583-586.	0.4	0
174	Role of the i-Layer Thickness in the Performance of a-Si:H Schottky Barrier Photodiodes. Key Engineering Materials, 2002, 230-232, 587-590.	0.4	0
175	Role of Substrate on the Growth Process of Polycrystalline Silicon Thin Films by Low-Pressure Chemical Vapour Deposition. Materials Science Forum, 2004, 455-456, 112-115.	0.3	0
176	Sputtering Preparation of Silicon Nitride Thin Films for Gate Dielectric Applications. Materials Science Forum, 2004, 455-456, 69-72.	0.3	0
177	MIS Photodiodes of Polymorphous Silicon Deposited at Higher Growth Rates by 27.12 MHz PECVD Discharge. Materials Science Forum, 2004, 455-456, 73-76.	0.3	0
178	Properties of a-Si:H intrinsic films produced by HWPA-CVD technique. Thin Solid Films, 2004, 451-452, 366-369.	1.8	0
179	Effect of the tunnelling oxide thickness and density on the performance of MIS photodiodes. Thin Solid Films, 2004, 451-452, 361-365.	1.8	0
180	Effect of the tunnelling oxide growth by H2O2 oxidation on the performance of a-Si:H MIS photodiodes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2004, 109, 256-259.	3.5	0

#	Article	IF	Citations
181	Characterization of Nickel Induced Crystallized Silicon by Spectroscopic Ellipsometry. Materials Research Society Symposia Proceedings, 2006, 910, 6.	0.1	0
182	Optical and Microstructural Investigations of Porous Silicon Coated with a-Si:H Using PECVD Technique. Materials Science Forum, 0, 587-588, 308-312.	0.3	0
183	Nanostructured Silicon Based Thin Film Transistors Processed in the Plasma Dark Region. Journal of Nanoscience and Nanotechnology, 2010, 10, 2938-2943.	0.9	0
184	Towards single cell spectroscopy and refractometry in microfluidic chip platforms. , 2011, , .		0
185	Microfluidic chip for spectroscopic and refractometric analysis. Proceedings of SPIE, 2012, , .	0.8	0
186	Paper electronics: a sustainable multifunctional platform. , 2018, , .		0
187	The Mortars of Built Cultural Heritage: The Palace of Knossos Case Study and Material Characterization. , 0, , .		0