

# Hugo guas

## List of Publications by Citations

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176  
papers

3,341  
citations

31  
h-index

50  
g-index

187  
ext. papers

3,822  
ext. citations

4.5  
avg, IF

5.07  
L-index

#	Paper	IF	Citations
176	Influence of the deposition pressure on the properties of transparent and conductive ZnO:Ga thin-film produced by r.f. sputtering at room temperature. <i>Thin Solid Films</i> , <b>2003</b> , 427, 401-405	2.2	263
175	Highly stable transparent and conducting gallium-doped zinc oxide thin films for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , <b>2008</b> , 92, 1605-1610	6.4	139
174	High field-effect mobility zinc oxide thin film transistors produced at room temperature. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 338-340, 806-809	3.9	112
173	Multifunctional cellulose-paper for light harvesting and smart sensing applications. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 3143-3181	7.1	107
172	Growth of ZnO:Ga thin films at room temperature on polymeric substrates: thickness dependence. <i>Thin Solid Films</i> , <b>2003</b> , 442, 121-126	2.2	93
171	High quality conductive gallium-doped zinc oxide films deposited at room temperature. <i>Thin Solid Films</i> , <b>2004</b> , 451-452, 443-447	2.2	92
170	Thin Film Silicon Photovoltaic Cells on Paper for Flexible Indoor Applications. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 3592-3598	15.6	86
169	New challenges on gallium-doped zinc oxide films prepared by r.f. magnetron sputtering. <i>Thin Solid Films</i> , <b>2003</b> , 442, 102-106	2.2	86
168	Influence of the layer thickness in plasmonic gold nanoparticles produced by thermal evaporation. <i>Scientific Reports</i> , <b>2013</b> , 3, 1469	4.9	80
167	Photonic-structured TiO <sub>2</sub> for high-efficiency, flexible and stable Perovskite solar cells. <i>Nano Energy</i> , <b>2019</b> , 59, 91-101	17.1	68
166	Office paper decorated with silver nanostars - an alternative cost effective platform for trace analyte detection by SERS. <i>Scientific Reports</i> , <b>2017</b> , 7, 2480	4.9	61
165	Transparent, conductive ZnO:Al thin film deposited on polymer substrates by RF magnetron sputtering. <i>Surface and Coatings Technology</i> , <b>2002</b> , 151-152, 247-251	4.4	59
164	Silicon thin film solar cells on commercial tiles. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 4620	35.4	57
163	Broadband photocurrent enhancement in a-Si:H solar cells with plasmonic back reflectors. <i>Optics Express</i> , <b>2014</b> , 22 Suppl 4, A1059-70	3.3	55
162	Inkjet printed and "doctor blade" TiO <sub>2</sub> photodetectors for DNA biosensors. <i>Biosensors and Bioelectronics</i> , <b>2010</b> , 25, 1229-34	11.8	52
161	New developments in gallium doped zinc oxide deposited on polymeric substrates by RF magnetron sputtering. <i>Surface and Coatings Technology</i> , <b>2004</b> , 180-181, 20-25	4.4	51
160	Design of optimized wave-optical spheroidal nanostructures for photonic-enhanced solar cells. <i>Nano Energy</i> , <b>2016</b> , 26, 286-296	17.1	50

159	Nanostructured silicon and its application to solar cells, position sensors and thin film transistors. <i>Philosophical Magazine</i> , <b>2009</b> , 89, 2699-2721	1.6	49
158	Broadband light trapping in thin film solar cells with self-organized plasmonic nano-colloids. <i>Nanotechnology</i> , <b>2015</b> , 26, 135202	3.4	47
157	Highly efficient nanoplasmonic SERS on cardboard packaging substrates. <i>Nanotechnology</i> , <b>2014</b> , 25, 415302	3.4	47
156	Mapping the Electrical Properties of ZnO-Based Transparent Conductive Oxides Grown at Room Temperature and Improved by Controlled Postdeposition Annealing. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1500287	6.4	45
155	Polycrystalline intrinsic zinc oxide to be used in transparent electronic devices. <i>Thin Solid Films</i> , <b>2005</b> , 487, 212-215	2.2	43
154	Direct growth of plasmonic nanorod forests on paper substrates for low-cost flexible 3D SERS platforms. <i>Flexible and Printed Electronics</i> , <b>2017</b> , 2, 014001	3.1	37
153	Bio-microfluidic platform for gold nanoprobe based DNA detection--application to Mycobacterium tuberculosis. <i>Biosensors and Bioelectronics</i> , <b>2013</b> , 48, 87-93	11.8	37
152	Colloidal-lithographed TiO <sub>2</sub> photonic nanostructures for solar cell light trapping. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 6852-6861	7.1	36
151	Passivation of Interfaces in Thin Film Solar Cells: Understanding the Effects of a Nanostructured Rear Point Contact Layer. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701101	4.6	36
150	Influence of the Substrate on the Morphology of Self-Assembled Silver Nanoparticles by Rapid Thermal Annealing. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 18235-18242	3.8	35
149	Performances of hafnium oxide produced by radio frequency sputtering for gate dielectric application. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2004</b> , 109, 89-93	3.1	34
148	Piezoresistive E-Skin Sensors Produced with Laser Engraved Molds. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1800182	6.4	33
147	Polycrystalline silicon obtained by metal induced crystallization using different metals. <i>Thin Solid Films</i> , <b>2004</b> , 451-452, 334-339	2.2	32
146	3D ZnO/Ag Surface-Enhanced Raman Scattering on Disposable and Flexible Cardboard Platforms. <i>Materials</i> , <b>2017</b> , 10, 1351	3.5	31
145	Piezoelectricity Enhancement of Nanogenerators Based on PDMS and ZnSnO Nanowires through Microstructuration. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 18421-18430	9.5	30
144	Label-Free Nanosensing Platform for Breast Cancer Exosome Profiling. <i>ACS Sensors</i> , <b>2019</b> , 4, 2073-2083	9.2	30
143	Digital Microfluidics for Nucleic Acid Amplification. <i>Sensors</i> , <b>2017</b> , 17,	3.8	30
142	Highly conductive p-type nanocrystalline silicon films deposited by RF-PECVD using silane and trimethylboron mixtures at high pressure. <i>Vacuum</i> , <b>2009</b> , 83, 1253-1256	3.7	29

141	Large Area Deposition of Polymorphous Silicon by Plasma Enhanced Chemical Vapor Deposition at 27.12 MHz and 13.56 MHz. <i>Japanese Journal of Applied Physics</i> , <b>2003</b> , 42, 4935-4942	1.4	29
140	Inkjet printed highly porous TiO <sub>2</sub> films for improved electrical properties of photoanode. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 465, 208-14	9.3	27
139	Flexible a-Si:H Position-Sensitive Detectors. <i>Proceedings of the IEEE</i> , <b>2005</b> , 93, 1281-1286	14.3	27
138	Optimal-Enhanced Solar Cell Ultra-thinning with Broadband Nanophotonic Light Capture. <i>IScience</i> , <b>2018</b> , 3, 238-254	6.1	26
137	Optical and structural analysis of porous silicon coated with GZO films using rf magnetron sputtering. <i>Thin Solid Films</i> , <b>2007</b> , 515, 8664-8669	2.2	26
136	Paper-Based SERS Platform for One-Step Screening of Tetracycline in Milk. <i>Scientific Reports</i> , <b>2019</b> , 9, 17922	4.9	26
135	New insights on large area flexible position sensitive detectors. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 299-302, 1272-1276	3.9	25
134	Optimum Luminescent Down-Shifting Properties for High Efficiency and Stable Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 2930-2938	6.1	24
133	Solar cells for self-sustainable intelligent packaging. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 13226-13236	2.3	23
132	Influence of post-deposition annealing on electrical and optical properties of ZnO-based TCOs deposited at room temperature. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 2317-2328	1.6	23
131	Low-temperature spray-coating of high-performing ZnO:Al films for transparent electronics. <i>Journal of Analytical and Applied Pyrolysis</i> , <b>2017</b> , 127, 299-308	6	22
130	Design of wave-optical structured substrates for ultra-thin perovskite solar cells. <i>Applied Materials Today</i> , <b>2020</b> , 20, 100720	6.6	21
129	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. <i>Thin Solid Films</i> , <b>2005</b> , 487, 170-173	2.2	21
128	A Digital Microfluidics Platform for Loop-Mediated Isothermal Amplification Detection. <i>Sensors</i> , <b>2017</b> , 17,	3.8	20
127	Influence of the Strain on the Electrical Resistance of Zinc Oxide Doped Thin Film Deposited on Polymer Substrates. <i>Advanced Engineering Materials</i> , <b>2002</b> , 4, 610-612	3.5	20
126	Ultra-fast plasmonic back reflectors production for light trapping in thin Si solar cells. <i>Solar Energy</i> , <b>2018</b> , 174, 786-792	6.8	20
125	Lightwave trapping in thin film solar cells with improved photonic-structured front contacts. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 6456-6464	7.1	18
124	Polycrystalline silicon obtained by gold metal induced crystallization. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 338-340, 178-182	3.9	18

123	Characterization of silicon carbide thin films prepared by VHF-PECVD technology. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 338-340, 530-533	3.9	18
122	Study of the stabilizer influence on the structural and optical properties of sol-gel spin coated zinc oxide films. <i>Materials Science in Semiconductor Processing</i> , <b>2018</b> , 74, 80-87	4.3	17
121	E-Skin Bimodal Sensors for Robotics and Prosthesis Using PDMS Molds Engraved by Laser. <i>Sensors</i> , <b>2019</b> , 19,	3.8	16
120	Flexible thin film solar cells on cellulose substrates with improved light management. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2017</b> , 214, 1700070	1.6	16
119	Silicon thin films prepared in the transition region and their use in solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2006</b> , 90, 3001-3008	6.4	16
118	Ag and Sn Nanoparticles to Enhance the Near-Infrared Absorbance of a-Si:H Thin Films. <i>Plasmonics</i> , <b>2014</b> , 9, 1015-1023	2.4	15
117	All-Thin-Film Perovskite/CBi Four-Terminal Tandems: Interlayer and Intermediate Contacts Optimization. <i>ACS Applied Energy Materials</i> , <b>2019</b> , 2, 3979-3985	6.1	14
116	a-Si:H interface optimisation for thin film position sensitive detectors produced on polymeric substrates. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 299-302, 1289-1294	3.9	14
115	Optoelectronic Devices from Bacterial NanoCellulose <b>2016</b> , 179-197		14
114	A statistics modeling approach for the optimization of thin film photovoltaic devices. <i>Solar Energy</i> , <b>2017</b> , 144, 232-243	6.8	13
113	Multifunctional microfluidic chip for optical nanoprobe based RNA detection - application to Chronic Myeloid Leukemia. <i>Scientific Reports</i> , <b>2018</b> , 8, 381	4.9	13
112	Nanostructure characterization of high k materials by spectroscopic ellipsometry. <i>Applied Surface Science</i> , <b>2006</b> , 253, 339-343	6.7	13
111	Linearity and sensitivity of MIS position sensitive detectors. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 1377-1381	4.9	13
110	Paper-Based In-Situ Gold Nanoparticle Synthesis for Colorimetric, Non-Enzymatic Glucose Level Determination. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	13
109	Vacuum solid-state ion-conducting silver source for application in field emission electric propulsion systems. <i>Vacuum</i> , <b>2016</b> , 131, 252-258	3.7	13
108	Hydrogen plasma treatment of very thin p-type nanocrystalline Si films grown by RF-PECVD in the presence of B(CH). <i>Science and Technology of Advanced Materials</i> , <b>2012</b> , 13, 045004	7.1	12
107	Amorphous silicon position sensitive detectors applied to micropositioning. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 1792-1796	3.9	12
106	Production and characterization of large area flexible thin film position sensitive detectors. <i>Thin Solid Films</i> , <b>2001</b> , 383, 310-313	2.2	12

105	Transduction Mechanisms, Micro-Structuring Techniques, and Applications of Electronic Skin Pressure Sensors: A Review of Recent Advances. <i>Sensors</i> , <b>2020</b> , 20,	3.8	12
104	Colloidal-structured metallic micro-grids: High performance transparent electrodes in the red and infrared range. <i>Solar Energy Materials and Solar Cells</i> , <b>2019</b> , 197, 7-12	6.4	11
103	Design and Simple Assembly of Gold Nanostar Bioconjugates for Surface-Enhanced Raman Spectroscopy Immunoassays. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	11
102	Experimental optimization of a passive planar rhombic micromixer with obstacles for effective mixing in a short channel length. <i>RSC Advances</i> , <b>2014</b> , 4, 56013-56025	3.7	11
101	Time-resolved luminescence studies of Eu <sup>3+</sup> in soda-lime silicate glasses. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2014</b> , 134, 29-38	2.1	11
100	Study of nanostructured silicon by hydrogen evolution and its application in p <i>+</i> i solar cells. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 1945-1948	3.9	11
99	Polymorphous Silicon Films Deposited at 27.12 MHz. <i>Chemical Vapor Deposition</i> , <b>2003</b> , 9, 333-337		11
98	Thin film position sensitive detectors based on pin amorphous silicon carbide structures. <i>Applied Surface Science</i> , <b>2001</b> , 184, 443-447	6.7	11
97	High UV and Sunlight Photocatalytic Performance of Porous ZnO Nanostructures Synthesized by a Facile and Fast Microwave Hydrothermal Method. <i>Materials</i> , <b>2021</b> , 14,	3.5	11
96	The effects of argon and helium dilution in the growth of nc-Si:H thin films by plasma-enhanced chemical vapor deposition. <i>Journal of Materials Science</i> , <b>2018</b> , 53, 3672-3681	4.3	11
95	Raman spectrum of nanocrystals: Phonon dispersion splitting and anisotropy. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	11
94	Nanocrystalline thin film silicon solar cells: A deeper look into p/i interface formation. <i>Thin Solid Films</i> , <b>2015</b> , 591, 25-31	2.2	10
93	Study of environmental degradation of silver surface. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2008</b> , 5, 1215-1218		10
92	Spectroscopic ellipsometry study of Co-doped TiO <sub>2</sub> films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2008</b> , 205, 880-883	1.6	10
91	Influence of the deposition conditions on the properties of titanium oxide produced by r.f. magnetron sputtering. <i>Materials Science in Semiconductor Processing</i> , <b>2004</b> , 7, 243-247	4.3	10
90	Spectroscopic ellipsometry study of amorphous silicon anodically oxidised. <i>Thin Solid Films</i> , <b>2003</b> , 427, 345-349	2.2	10
89	Surface modification of a new flexible substrate based on hydroxypropylcellulose for optoelectronic applications. <i>Thin Solid Films</i> , <b>2003</b> , 442, 127-131	2.2	10
88	Super linear position sensitive detectors using MIS structures. <i>Optical Materials</i> , <b>2005</b> , 27, 1088-1092	3.3	10

87	32 linear array position sensitive detector based on NIP and hetero a-Si:H microdevices. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 299-302, 1283-1288	3.9	10
86	Photonic-structured TCO front contacts yielding optical and electrically enhanced thin-film solar cells. <i>Solar Energy</i> , <b>2020</b> , 196, 92-98	6.8	10
85	Characterization of the density of states of polymorphous silicon films produced at 13.56 and 27.12 MHz using CPM and SCLC techniques. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 338-340, 206-210	3.9	9
84	Metal induced crystallization: Gold versus aluminium. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 1387-1391	4.3	9
83	Role of ion bombardment on the properties of a-Si:H films. <i>Vacuum</i> , <b>2001</b> , 60, 247-254	3.7	9
82	Oxidation and Strain in Free-standing Silicon Nanocrystals. <i>Physical Review Applied</i> , <b>2019</b> , 11,	4.3	9
81	Fast Prototyping Microfluidics: Integrating Droplet Digital Lamp for Absolute Quantification of Cancer Biomarkers. <i>Sensors</i> , <b>2020</b> , 20,	3.8	8
80	An integrated approach for assessing the bioreceptivity of glazed tiles to phototrophic microorganisms. <i>Biofouling</i> , <b>2016</b> , 32, 243-59	3.3	8
79	High quality a-Si:H films for MIS device applications. <i>Thin Solid Films</i> , <b>2002</b> , 403-404, 26-29	2.2	8
78	Polymorphous silicon deposited in large area reactor at 13 and 27 MHz. <i>Thin Solid Films</i> , <b>2003</b> , 427, 6-10	2.2	8
77	Study of the effect of different plasma-enhanced chemical vapour deposition reactor configurations on the properties of hydrogenated amorphous silicon thin films. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , <b>2000</b> , 80, 475-486		8
76	Plasma diagnostics of a PECVD system using different R.F. electrode configurations. <i>Vacuum</i> , <b>2000</b> , 56, 31-37	3.7	8
75	Single nucleotide polymorphism detection using gold nanoprobe and bio-microfluidic platform with embedded microlenses. <i>Biotechnology and Bioengineering</i> , <b>2015</b> , 112, 1210-9	4.9	7
74	Self-Cleaned Photonic-Enhanced Solar Cells with Nanostructured Parylene-C. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 2000264	4.6	7
73	n-PS/a-Si:H heterojunction for device application. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 2632-2636	3.9	7
72	Spectroscopic ellipsometry study of nickel induced crystallization of a-Si. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 1204-1208	3.9	7
71	Role of ion bombardment and plasma impedance on the performances presented by undoped a-Si:H films. <i>Thin Solid Films</i> , <b>2001</b> , 383, 165-168	2.2	7
70	Correlation between a-Si:H surface oxidation process and the performance of MIS structures. <i>Thin Solid Films</i> , <b>2001</b> , 383, 185-188	2.2	7

69	Characteristics of a linear array of a-Si:H thin film position sensitive detector. <i>Thin Solid Films</i> , <b>1999</b> , 337, 222-225	2.2	7
68	Role of the hot wire filament temperature on the structure and morphology of the nanocrystalline silicon p-doped films. <i>Applied Surface Science</i> , <b>1999</b> , 144-145, 690-696	6.7	7
67	Role of a disperse carbon interlayer on the performances of tandem a-Si solar cells. <i>Science and Technology of Advanced Materials</i> , <b>2013</b> , 14, 045009	7.1	6
66	Multifunctional Thin Film Zinc Oxide Semiconductors: Application to Electronic Devices. <i>Materials Science Forum</i> , <b>2006</b> , 514-516, 3-7	0.4	6
65	ZnO:Ga Thin Films Produced by RF Sputtering at Room Temperature: Effect of the Power Density. <i>Materials Science Forum</i> , <b>2004</b> , 455-456, 12-15	0.4	6
64	Effect of the discharge frequency and impedance on the structural properties of polymorphous silicon. <i>Thin Solid Films</i> , <b>2004</b> , 451-452, 264-268	2.2	6
63	Dependence of the Strains and Residual Mechanical Stresses on the Performances Presented by a-Si:H Thin Film Position Sensors. <i>Advanced Engineering Materials</i> , <b>2002</b> , 4, 612-616	3.5	6
62	Colloidal Lithography for Photovoltaics: An Attractive Route for Light Management. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	6
61	E-Skin Pressure Sensors Made by Laser Engraved PDMS Molds. <i>Proceedings (mdpi)</i> , <b>2018</b> , 2, 1039	0.3	6
60	Role of trimethylboron to silane ratio on the properties of p-type nanocrystalline silicon thin film deposited by radio frequency plasma enhanced chemical vapour deposition. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 2547-51	1.3	5
59	Amorphous silicon-based PINIP structure for color sensor. <i>Thin Solid Films</i> , <b>2005</b> , 487, 268-270	2.2	5
58	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. <i>Applied Surface Science</i> , <b>2001</b> , 184, 60-65	6.7	5
57	Towards the improvement of the stability of a-Si:H pin devices. <i>Solar Energy</i> , <b>2001</b> , 69, 257-262	6.8	5
56	Wave-optical front structures on silicon and perovskite thin-film solar cells <b>2020</b> , 315-354		5
55	Reusable and highly sensitive SERS immunoassay utilizing gold nanostars and a cellulose hydrogel-based platform. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 7516-7529	7.3	5
54	Investigation of a-Si:H 1D MIS position sensitive detectors for application in 3D sensors. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 1787-1791	3.9	4
53	Engineering of a-Si:H device stability by suitable design of interfaces. <i>Solar Energy Materials and Solar Cells</i> , <b>2002</b> , 73, 39-49	6.4	4
52	New nanostructured silicon films grown by PECVD technique under controlled powder formation conditions. <i>Solar Energy</i> , <b>2001</b> , 69, 263-269	6.8	4



51	Influence of the Plasma Regime on the Structural, Optical, Electrical and Morphological Properties of a-Si:H Thin Films. <i>Materials Science Forum</i> , <b>2001</b> , 382, 11-20	0.4	4
50	Optimization of ZnO Nanorods Concentration in a Micro-Structured Polymeric Composite for Nanogenerators. <i>Chemosensors</i> , <b>2021</b> , 9, 27	4	4
49	Color sensing ability of an amorphous silicon position sensitive detector array system. <i>Sensors and Actuators A: Physical</i> , <b>2014</b> , 205, 26-37	3.9	3
48	3 dimensional polymorphous silicon based metal-insulator-semiconductor position sensitive detectors. <i>Thin Solid Films</i> , <b>2007</b> , 515, 7530-7533	2.2	3
47	Flexible position sensitive photodetectors based on a-Si:H heterostructures. <i>Sensors and Actuators A: Physical</i> , <b>2004</b> , 116, 119-124	3.9	3
46	Influence of a DC grid on silane r.f. plasma properties. <i>Vacuum</i> , <b>2002</b> , 64, 387-392	3.7	3
45	Metal-ferroelectric thin film devices. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 299-302, 1311-1315	3.9	3
44	Hybrid Microfluidic Platform for Multifactorial Analysis Based on Electrical Impedance, Refractometry, Optical Absorption and Fluorescence. <i>Micromachines</i> , <b>2016</b> , 7,	3.3	3
43	Insights on Amorphous Silicon Nip and MIS 3D Position Sensitive Detectors. <i>Materials Science Forum</i> , <b>2006</b> , 514-516, 13-17	0.4	2
42	Effect of Annealing on Gold Rectifying Contacts in Amorphous Silicon. <i>Materials Science Forum</i> , <b>2004</b> , 455-456, 96-99	0.4	2
41	Effect of an interfacial oxide layer in the annealing behaviour of Au/a-Si:H MIS photodiodes. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 338-340, 810-813	3.9	2
40	Characterization of silicon carbide thin films and their use in colour sensor. <i>Solar Energy Materials and Solar Cells</i> , <b>2005</b> , 87, 343-348	6.4	2
39	Fast and cheap method to qualitatively measure the thickness and uniformity of ZrO <sub>2</sub> thin films. <i>Materials Science in Semiconductor Processing</i> , <b>2001</b> , 4, 319-321	4.3	2
38	Porous PDMS conformable coating for high power output carbon fibers/ZnO nanorod-based triboelectric energy harvesters. <i>Nano Energy</i> , <b>2021</b> , 90, 106582	17.1	2
37	Recombination of photo-generated charge carriers in H-terminated and (photo-)oxidized silicon nanoparticles. <i>Applied Materials Today</i> , <b>2021</b> , 23, 101071	6.6	2
36	Size-dependent critical transition in the origin of light emission from core-shell SiBiO <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 9012-9023	7.1	1
35	Photovoltaics: Passivation of Interfaces in Thin Film Solar Cells: Understanding the Effects of a Nanostructured Rear Point Contact Layer (Adv. Mater. Interfaces 2/2018). <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1870007	4.6	1
34	Metal contamination detection in nickel induced crystallized silicon by spectroscopic ellipsometry. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 2319-2323	3.9	1

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