

# Luis Mnp Pereira

## List of Publications by Citations

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207  
papers

7,981  
citations

47  
h-index

85  
g-index

221  
ext. papers

8,659  
ext. citations

4.2  
avg. IF

5.61  
L-index

#	Paper	IF	Citations
207	Fully Transparent ZnO Thin-Film Transistor Produced at Room Temperature. <i>Advanced Materials</i> , <b>2005</b> , 17, 590-594	24	744
206	Wide-bandgap high-mobility ZnO thin-film transistors produced at room temperature. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 2541-2543	3.4	455
205	Recent advances in ZnO transparent thin film transistors. <i>Thin Solid Films</i> , <b>2005</b> , 487, 205-211	2.2	301
204	High-Performance Flexible Hybrid Field-Effect Transistors Based on Cellulose Fiber Paper. <i>IEEE Electron Device Letters</i> , <b>2008</b> , 29, 988-990	4.4	219
203	Toward High-Performance Amorphous GIZO TFTs. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, H1613-9	3.9	216
202	Complementary metal oxide semiconductor technology with and on paper. <i>Advanced Materials</i> , <b>2011</b> , 23, 4491-6	24	201
201	Gate-bias stress in amorphous oxide semiconductors thin-film transistors. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 063502	3.4	196
200	High mobility indium free amorphous oxide thin film transistors. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 222103	3.4	193
199	Effect of post-annealing on the properties of copper oxide thin films obtained from the oxidation of evaporated metallic copper. <i>Applied Surface Science</i> , <b>2008</b> , 254, 3949-3954	6.7	187
198	Role of order and disorder on the electronic performances of oxide semiconductor thin film transistors. <i>Journal of Applied Physics</i> , <b>2007</b> , 101, 044505	2.5	185
197	Influence of the semiconductor thickness on the electrical properties of transparent TFTs based on indium zinc oxide. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 1749-1752	3.9	183
196	Nanocrystalline cellulose applied simultaneously as the gate dielectric and the substrate in flexible field effect transistors. <i>Nanotechnology</i> , <b>2014</b> , 25, 094008	3.4	180
195	. <i>IEEE Transactions on Electron Devices</i> , <b>2008</b> , 55, 954-960	2.9	169
194	Amorphous IZO TTFTs with saturation mobilities exceeding 100 cm <sup>2</sup> /Vs. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2007</b> , 1, R34-R36	2.5	155
193	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
192	Zinc oxide, a multifunctional material: from material to device applications. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 96, 197-205	2.6	130
191	Influence of post-annealing temperature on the properties exhibited by ITO, IZO and GZO thin films. <i>Thin Solid Films</i> , <b>2007</b> , 515, 8562-8566	2.2	122

190	Recyclable, Flexible, Low-Power Oxide Electronics. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 2153-2161	15.6	112
189	Write-erase and read paper memory transistor. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 203501	3.4	112
188	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
187	WO <sub>3</sub> nanoparticle-based conformable pH sensor. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 12226-12234	3.4	105
186	Transport in high mobility amorphous wide band gap indium zinc oxide films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2005</b> , 202, R95-R97	1.6	103
185	Aqueous combustion synthesis of aluminum oxide thin films and application as gate dielectric in GZTO solution-based TFTs. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 19592-9	9.5	99
184	The Effect of Deposition Conditions and Annealing on the Performance of High-Mobility GIZO TFTs. <i>Electrochemical and Solid-State Letters</i> , <b>2008</b> , 11, H248		95
183	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
182	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
181	Electrochromic behavior of NiO thin films deposited by e-beam evaporation at room temperature. <i>Solar Energy Materials and Solar Cells</i> , <b>2014</b> , 120, 109-115	6.4	88
180	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
179	Effect of annealing temperature on the properties of IZO films and IZO based transparent TFTs. <i>Thin Solid Films</i> , <b>2007</b> , 515, 8450-8454	2.2	85
178	High mobility hydrogenated zinc oxide thin films. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 163, 255-262		83
177	<b>2012</b> ,		83
176	Insight on the SU-8 resist as passivation layer for transparent Ga <sub>2</sub> O <sub>3</sub> /In <sub>2</sub> O <sub>3</sub> /ZnO thin-film transistors. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 064505	2.5	76
175	Effect of UV and visible light radiation on the electrical performances of transparent TFTs based on amorphous indium zinc oxide. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 1756-1760	3.9	76
174	High mobility and low threshold voltage transparent thin film transistors based on amorphous indium zinc oxide semiconductors. <i>Solid-State Electronics</i> , <b>2008</b> , 52, 443-448	1.7	72
173	Electron transport and optical characteristics in amorphous indium zinc oxide films. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 1471-1474	3.9	70

172	Reusable Cellulose-Based Hydrogel Sticker Film Applied as Gate Dielectric in Paper Electrolyte-Gated Transistors. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606755	15.6	66
171	Performance and Stability of Low Temperature Transparent Thin-Film Transistors Using Amorphous Multicomponent Dielectrics. <i>Journal of the Electrochemical Society</i> , <b>2009</b> , 156, H824	3.9	60
170	Zinc oxide thin films: Characterization and potential applications. <i>Thin Solid Films</i> , <b>2010</b> , 518, 4515-4519	2.2	57
169	High k dielectrics for low temperature electronics. <i>Thin Solid Films</i> , <b>2008</b> , 516, 1544-1548	2.2	53
168	Printable cellulose-based electroconductive composites for sensing elements in paper electronics. <i>Flexible and Printed Electronics</i> , <b>2017</b> , 2, 014006	3.1	52
167	Microstructure control of dual-phase inkjet-printed $\alpha$ -WO <sub>3</sub> /TiO <sub>2</sub> /WO <sub>x</sub> films for high-performance electrochromic applications. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 13268		51
166	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
165	The influence of fibril composition and dimension on the performance of paper gated oxide transistors. <i>Nanotechnology</i> , <b>2014</b> , 25, 094007	3.4	50
164	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
163	Papertronics: Multigate paper transistor for multifunction applications. <i>Applied Materials Today</i> , <b>2018</b> , 12, 402-414	6.6	48
162	Synthesis of WO <sub>3</sub> nanoparticles for biosensing applications. <i>Sensors and Actuators B: Chemical</i> , <b>2016</b> , 223, 186-194	8.5	47
161	Influence of the oxygen/argon ratio on the properties of sputtered hafnium oxide. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2005</b> , 118, 210-213	3.1	47
160	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
159	Smart optically active VO <sub>2</sub> nanostructured layers applied in roof-type ceramic tiles for energy efficiency. <i>Solar Energy Materials and Solar Cells</i> , <b>2016</b> , 150, 1-9	6.4	42
158	Structure and Morphologic Influence of WO <sub>3</sub> Nanoparticles on the Electrochromic Performance of Dual-Phase $\alpha$ -WO <sub>3</sub> /WO <sub>3</sub> Inkjet Printed Films. <i>Advanced Electronic Materials</i> , <b>2015</b> , 1, 1400002	6.4	41
157	High Mobility $\alpha$ -IGO Films Produced at Room Temperature and Their Application in TFTs. <i>Electrochemical and Solid-State Letters</i> , <b>2010</b> , 13, H20		41
156	Crystallization of amorphous indium zinc oxide thin films produced by radio-frequency magnetron sputtering. <i>Thin Solid Films</i> , <b>2008</b> , 516, 1374-1376	2.2	41
155	Role of order and disorder in covalent semiconductors and ionic oxides used to produce thin film transistors. <i>Applied Physics A: Materials Science and Processing</i> , <b>2007</b> , 89, 37-42	2.6	40

154	Towards environmental friendly solution-based ZTO/AlO <sub>x</sub> TFTs. <i>Semiconductor Science and Technology</i> , <b>2015</b> , 30, 024007	1.8	39
153	Tailoring nanoscale properties of tungsten oxide for inkjet printed electrochromic devices. <i>Nanoscale</i> , <b>2015</b> , 7, 1696-708	7.7	36
152	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
151	Selective floating gate non-volatile paper memory transistor. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2009</b> , 3, 308-310	2.5	33
150	The characterisation of aerosol assisted CVD conducting, photocatalytic indium doped zinc oxide films. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2011</b> , 219, 10-15	4.7	33
149	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
148	Photocatalytic behavior of TiO <sub>2</sub> films synthesized by microwave irradiation. <i>Catalysis Today</i> , <b>2016</b> , 278, 262-270	5.3	30
147	The role of source and drain material in the performance of GIZO based thin-film transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2008</b> , 205, 1905-1909	1.6	29
146	Influence of time, light and temperature on the electrical properties of zinc oxide TFTs. <i>Superlattices and Microstructures</i> , <b>2006</b> , 39, 319-327	2.8	29
145	Solvothermal synthesis of gallium-indium-zinc-oxide nanoparticles for electrolyte-gated transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 638-46	9.5	28
144	Flexible and Transparent WO <sub>3</sub> Transistor with Electrical and Optical Modulation. <i>Advanced Electronic Materials</i> , <b>2015</b> , 1, 1500030	6.4	27
143	Flexible a-Si:H Position-Sensitive Detectors. <i>Proceedings of the IEEE</i> , <b>2005</b> , 93, 1281-1286	14.3	27
142	Low temperature processed hafnium oxide: Structural and electrical properties. <i>Materials Science in Semiconductor Processing</i> , <b>2006</b> , 9, 1125-1132	4.3	26
141	Field-Effect Transistors on Photonic Cellulose Nanocrystal Solid Electrolyte for Circular Polarized Light Sensing. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1805279	15.6	26
140	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
139	Role of Room Temperature Sputtered High Conductive and High Transparent Indium Zinc Oxide Film Contacts on the Performance of Orange, Green, and Blue Organic Light Emitting Diodes. <i>Plasma Processes and Polymers</i> , <b>2011</b> , 8, 340-345	3.4	24
138	Oxide semiconductors: Order within the disorder. <i>Philosophical Magazine</i> , <b>2009</b> , 89, 2741-2758	1.6	24
137	Electron transport in single and multicomponent n-type oxide semiconductors. <i>Thin Solid Films</i> , <b>2008</b> , 516, 1322-1325	2.2	23

136	Handwritten Oxide Electronics on Paper. <i>Advanced Materials Technologies</i> , <b>2017</b> , 2, 1700009	6.8	22
135	Cellulose: A Contribution for the Zero e-Waste Challenge. <i>Advanced Materials Technologies</i> , <b>2000994</b>	6.8	22
134	Statistical mixture design and multivariate analysis of inkjet printed a-WO <sub>3</sub> /TiO <sub>2</sub> /WOX electrochromic films. <i>ACS Combinatorial Science</i> , <b>2014</b> , 16, 5-16	3.9	21
133	Current transport mechanism at metal-semiconductor nanoscale interfaces based on ultrahigh density arrays of p-type NiO nano-pillars. <i>Nanoscale</i> , <b>2013</b> , 5, 11699-709	7.7	21
132	Room-Temperature Cosputtered HfO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> Multicomponent Gate Dielectrics. <i>Electrochemical and Solid-State Letters</i> , <b>2009</b> , 12, G65		21
131	Synthesis, design, and morphology of metal oxide nanostructures <b>2019</b> , 21-57		21
130	Study and Characterization of a Novel Polymer Electrolyte Based on Agar Doped with Magnesium Triflate. <i>Molecular Crystals and Liquid Crystals</i> , <b>2013</b> , 570, 1-11	0.5	20
129	Role of Structure and Composition on the Performances of P-Type Tin Oxide Thin-Film Transistors Processed at Low-Temperatures. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	19
128	Texture development, microstructure and phase transformation characteristics of sputtered Ni <sub>40</sub> Ti <sub>60</sub> Shape Memory Alloy films grown on TiN. <i>Thin Solid Films</i> , <b>2010</b> , 519, 122-128	2.2	19
127	Fully Printed Zinc Oxide Electrolyte-Gated Transistors on Paper. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	18
126	Gelatin/Zn(CF <sub>3</sub> SO <sub>3</sub> ) <sub>2</sub> Polymer Electrolytes for Electrochromic Devices. <i>Electroanalysis</i> , <b>2013</b> , 25, 1483-1490		18
125	Study of graded Ni-Ti shape memory alloy film growth on Si(100) substrate. <i>Applied Physics A: Materials Science and Processing</i> , <b>2008</b> , 91, 291-299	2.6	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	Solid State Electrochemical WO <sub>3</sub> Transistors with High Current Modulation. <i>Advanced Electronic Materials</i> , <b>2016</b> , 2, 1500414	6.4	17
121	Planar Dual-Gate Paper/Oxide Field Effect Transistors as Universal Logic Gates. <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1800423	6.4	17
120	Electronic structure of amorphous ZnO films. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2014</b> , 11, 1476-1480		16
119	Preparation and characterization of cellulose nanocomposite hydrogels as functional electrolytes. <i>Solid State Ionics</i> , <b>2013</b> , 242, 26-32	3.3	16

118	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
117	Sputtered multicomponent amorphous dielectrics for transparent electronics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2009</b> , 206, 2149-2154	1.6	16
116	Interpreting anomalies observed in oxide semiconductor TFTs under negative and positive bias stress. <i>AIP Advances</i> , <b>2016</b> , 6, 085321	1.5	16
115	Silicon carbide alloys produced by hot wire, hot wire plasma-assisted and plasma-enhanced CVD techniques. <i>Applied Surface Science</i> , <b>2001</b> , 184, 8-19	6.7	15
114	Mechanism of densification in low-temperature FLASH sintered lead free potassium sodium niobate (KNN) piezoelectrics. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 14334-14341	7.1	15
113	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
112	Optoelectronic Devices from Bacterial NanoCellulose <b>2016</b> , 179-197		14
111	Nanostructure characterization of high k materials by spectroscopic ellipsometry. <i>Applied Surface Science</i> , <b>2006</b> , 253, 339-343	6.7	13
110	Influence of metal induced crystallization parameters on the performance of polycrystalline silicon thin film transistors. <i>Thin Solid Films</i> , <b>2005</b> , 487, 102-106	2.2	13
109	Linearity and sensitivity of MIS position sensitive detectors. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 1377-1381	4.3	13
108	Sustainable Fully Printed UV Sensors on Cork Using Zinc Oxide/Ethylcellulose Inks. <i>Micromachines</i> , <b>2019</b> , 10,	3.3	12
107	Polymer light-emitting diodes with amorphous indium-zinc oxide anodes deposited at room temperature. <i>Synthetic Metals</i> , <b>2009</b> , 159, 1112-1115	3.6	12
106	Touch-Interactive Flexible Sustainable Energy Harvester and Self-Powered Smart Card. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 1908994	15.6	12
105	Study of nanostructured silicon by hydrogen evolution and its application in p-i-n solar cells. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 1945-1948	3.9	11
104	The influence of a poly-Si intermediate layer on the crystallization behaviour of Ni-Ti SMA magnetron sputtered thin films. <i>Applied Physics A: Materials Science and Processing</i> , <b>2006</b> , 83, 139-145	2.6	11
103	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
102	Potencial da técnica in vitro semi-automática de produção de gases para avaliação de silagens de sorgo ( <i>Sorghum bicolor</i> (L.) Moench). <i>Revista Brasileira De Zootecnia</i> , <b>2003</b> , 32, 1013-1020	1.2	11
101	P-type oxide-based thin film transistors produced at low temperatures <b>2012</b> ,		10

100	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
99	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
98	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
97	Spectroscopic ellipsometry study of amorphous silicon anodically oxidised. <i>Thin Solid Films</i> , <b>2003</b> , 427, 345-349	2.2	10
96	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
95	Super linear position sensitive detectors using MIS structures. <i>Optical Materials</i> , <b>2005</b> , 27, 1088-1092	3.3	10
94	Application of ultrasonic sprayed zirconium oxide dielectric in zinc tin oxide-based thin film transistor. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 3730-3739	7.1	10
93	Low temperature high k dielectric on poly-Si TFTs. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 2534-2537	3.9	9
92	In-situ study of Ni <sub>3</sub> Si thin film growth on a TiN intermediate layer by X-ray diffraction. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 126, 332-337	8.5	9
91	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
90	Metal induced crystallization: Gold versus aluminium. <i>Journal of Materials Science</i> , <b>2005</b> , 40, 1387-1391	4.3	9
89	Modelling the particle contact influence on the Joule heating and temperature distribution during FLASH sintering. <i>Journal of the European Ceramic Society</i> , <b>2020</b> , 40, 1205-1211	6	9
88	Nickel-assisted metal-induced crystallization of silicon: Effect of native silicon oxide layer. <i>Thin Solid Films</i> , <b>2006</b> , 511-512, 275-279	2.2	8
87	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
86	. <i>Journal of Display Technology</i> , <b>2013</b> , 9, 723-728		7
85	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
84	Performance of a-Si <sub>1-x</sub> C <sub>1-x</sub> H Schottky barrier and pin diodes used as position sensitive detectors. <i>Journal of Non-Crystalline Solids</i> , <b>2002</b> , 299-302, 1277-1282	3.9	7
83	Ionic Modified Cellulose Nanocrystal Self-Assembled Films with a Mesoporous Twisted Superstructure: Polarizability and Application in Ion-Gated Transistors. <i>ACS Applied Electronic Materials</i> , <b>2020</b> , 2, 426-436	4	7



82	Influence of Post-UV/Ozone Treatment of Ultrasonic-Sprayed Zirconium Oxide Dielectric Films for a Low-Temperature Oxide Thin Film Transistor. <i>Materials</i> , <b>2019</b> , 13,	3.5	7
81	. <i>Journal of Display Technology</i> , <b>2013</b> , 9, 825-831		6
80	Texture Development and Phase Transformation Behavior of Sputtered Ni-Ti Films. <i>Journal of Materials Engineering and Performance</i> , <b>2009</b> , 18, 543-547	1.6	6
79	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
78	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
77	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
76	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
75	Ionic Conductive Cellulose Mats by Solution Blow Spinning as Substrate and a Dielectric Interstrate Layer for Flexible Electronics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 26237-26246	9.5	6
74	Tuning the Electrical Properties of Cellulose Nanocrystals through Laser-Induced Graphitization for UV Photodetectors. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 8262-8272	5.6	6
73	Healable Cellulose Iontronic Hydrogel Stickers for Sustainable Electronics on Paper. <i>Advanced Electronic Materials</i> , <b>2021</b> , 7, 2001166	6.4	6
72	Optoelectronics and Bio Devices on Paper Powered by Solar Cells <b>2017</b> ,		5
71	Away from silicon era: the paper electronics <b>2011</b> ,		5
70	Characterization of nanocrystalline silicon carbide films. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 1410-1415	9.4	5
69	Influence of magnetron sputtering conditions on the chemical bonding, structural, morphological and optical behavior of Ta <sub>1-x</sub> O <sub>x</sub> coatings. <i>Surface and Coatings Technology</i> , <b>2018</b> , 334, 105-115	4.4	5
68	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
67	Engineered cellulose fibers as dielectric for oxide field effect transistors. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , <b>2015</b> , 12, 1421-1426		4
66	The effect of dopants on the morphology, microstructure and electrical properties of transparent zinc oxide films prepared by the sol-gel method. <i>Thin Solid Films</i> , <b>2011</b> , 520, 1174-1177	2.2	4
65	Self-sustained n-type memory transistor devices based on natural cellulose paper fibers. <i>Journal of Information Display</i> , <b>2009</b> , 10, 149-157	4.1	4

64	A Study on the Electrical Properties of ZnO Based Transparent TFTs. <i>Materials Science Forum</i> , <b>2006</b> , 514-516, 68-72	0.4	4
63	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
62	Silicon carbide photodiodes: Schottky and PINIP structures. <i>Applied Surface Science</i> , <b>2001</b> , 184, 437-442	6.7	4
61	Structural, optical, and electronic properties of metal oxide nanostructures <b>2019</b> , 59-102		4
60	Fast and Low-Cost Synthesis of MoS2 Nanostructures on Paper Substrates for Near-Infrared Photodetectors. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 1234	2.6	4
59	Paper field effect transistor <b>2009</b> ,		3
58	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
57	Impedance study of the electrical properties of poly-Si thin film transistors. <i>Journal of Non-Crystalline Solids</i> , <b>2006</b> , 352, 1737-1740	3.9	3
56	In-Situ GIXRD Characterization of the Crystallization of Ni-Ti Sputtered Thin Films. <i>Materials Science Forum</i> , <b>2004</b> , 455-456, 342-345	0.4	3
55	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
54	Optimization of the metal/silicon ratio on nickel assisted crystallization of amorphous silicon. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 869, 251		3
53	Cellulose-Based Solid Electrolyte Membranes Through Microwave Assisted Regeneration and Application in Electrochromic Displays. <i>Frontiers in Materials</i> , <b>2020</b> , 7,	4	3
52	Handwritten and Sustainable Electronic Logic Circuits with Fully Printed Paper Transistors. <i>Advanced Materials Technologies</i> , 2100633	6.8	3
51	29.4: Invited Paper: Paper Electronics: A Challenge for the Future. <i>Digest of Technical Papers SID International Symposium</i> , <b>2013</b> , 44, 365-367	0.5	2
50	The Future Is Paper Based. <i>Information Display</i> , <b>2014</b> , 30, 20-24	0.8	2
49	Electronics with and on Paper <b>2012</b> , 211-266		2
48	Oxide Semiconductors: From Materials to Devices <b>2010</b> , 141-183		2
47	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

46	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
45	Influence of paper surface characteristics on fully inkjet printed PEDOT:PSS-based electrochemical transistors. <i>Semiconductor Science and Technology</i> , <b>2021</b> , 36, 125005	1.8	2
44	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
43	The Role of Particle Contact in Densification of FLASH Sintered Potassium Sodium Niobate. <i>European Journal of Inorganic Chemistry</i> , <b>2020</b> , 2020, 3720-3728	2.3	2
42	UV-Responsive Screen-Printed Porous ZnO Nanostructures on Office Paper for Sustainable and Foldable Electronics. <i>Chemosensors</i> , <b>2021</b> , 9, 192	4	2
41	Chromogenic applications <b>2019</b> , 103-147		2
40	Multicomponent dielectrics for oxide TFT <b>2012</b> ,		1
39	A Glance at Current and Upcoming Applications <b>2012</b> , 267-286		1
38	Floating gate memory paper transistor <b>2010</b> ,		1
37	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
36	New Amorphous Oxide Semiconductor for Thin Film Transistors (TFTs). <i>Materials Science Forum</i> , <b>2008</b> , 587-588, 348-352	0.4	1
35	Electrical Performances of Low Temperature Annealed Hafnium Oxide Deposited at Room Temperature. <i>Materials Science Forum</i> , <b>2006</b> , 514-516, 58-62	0.4	1
34	Growth of Polymorphous/Nanocrystalline Silicon Films Deposited by PECVD at 13.56 MHz. <i>Materials Science Forum</i> , <b>2004</b> , 455-456, 532-535	0.4	1
33	Batch Processing Method to Deposit a-Si:H Films by PECVD. <i>Materials Science Forum</i> , <b>2004</b> , 455-456, 104-107	0.4	1
32	Role of the rf frequency on the structure and composition of polymorphous silicon films. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 338-340, 183-187	3.9	1
31	Smart IoT enabled interactive self-powered security tag designed with functionalized paper. <i>Nano Energy</i> , <b>2022</b> , 95, 107021	17.1	1
30	Particle Characteristics Influence on FLASH Sintering of Potassium Sodium Niobate: A Relationship with Conduction Mechanisms. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
29	Oxide materials for energy applications <b>2019</b> , 199-234		1

28	Dual-Gate Field Effect Transistors: Planar Dual-Gate Paper/Oxide Field Effect Transistors as Universal Logic Gates (Adv. Electron. Mater. 12/2018). <i>Advanced Electronic Materials</i> , <b>2018</b> , 4, 1870059	6.4	1
27	The (R)evolution of Thin-Film Transistors (TFTs) <b>2012</b> , 155-209		0
26	UV-Assisted Annealing Effect on the Performance of an Electrolyte-Gated Transistor Based on Inkjet Printed ZnO Nanoparticles Blended With Zinc Nitrate. <i>IEEE Transactions on Electron Devices</i> , <b>2022</b> , 1-7	2.9	0
25	Combining Soft with Hard Condensed Matter for Circular Polarized Light Sensing and Logic Operations. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2001731	8.1	0
24	Flexible, scalable, and efficient thermoelectric touch detector based on PDMS and graphite flakes. <i>Flexible and Printed Electronics</i> , <b>2021</b> , 6, 045018	3.1	0
23	Metal Oxide Nanoparticle Engineering for Printed Electrochemical Applications <b>2015</b> , 1-29		
22	N-Type Transparent Semiconducting Oxides <b>2012</b> , 9-61		
21	P-Type Transparent Conductors and Semiconductors <b>2012</b> , 63-100		
20	Gate Dielectrics in Oxide Electronics <b>2012</b> , 101-153		
19	Nanostructured silicon based thin film transistors processed in the plasma dark region. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 2938-43	1.3	
18	Optical and Microstructural Investigations of Porous Silicon Coated with a-Si:H Using PECVD Technique. <i>Materials Science Forum</i> , <b>2008</b> , 587-588, 308-312	0.4	
17	Characterization of Ni-Ti (Shape Memory Alloy) Thin Film by In Situ XRD and Complementary Ex Situ Techniques. <i>Materials Science Forum</i> , <b>2008</b> , 587-588, 672-676	0.4	
16	Poly-Si Thin Film Transistors: Effect of Metal Thickness on Silicon Crystallization. <i>Materials Science Forum</i> , <b>2006</b> , 514-516, 28-32	0.4	
15	Characterization of Nickel Induced Crystallized Silicon by Spectroscopic Ellipsometry. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 910, 6		
14	Role of Substrate on the Growth Process of Polycrystalline Silicon Thin Films by Low-Pressure Chemical Vapour Deposition. <i>Materials Science Forum</i> , <b>2004</b> , 455-456, 112-115	0.4	
13	Sputtering Preparation of Silicon Nitride Thin Films for Gate Dielectric Applications. <i>Materials Science Forum</i> , <b>2004</b> , 455-456, 69-72	0.4	
12	MIS Photodiodes of Polymorphous Silicon Deposited at Higher Growth Rates by 27.12 MHz PECVD Discharge. <i>Materials Science Forum</i> , <b>2004</b> , 455-456, 73-76	0.4	
11	Silicon Etching in CF <sub>4</sub> /O <sub>2</sub> and SF <sub>6</sub> Atmospheres. <i>Materials Science Forum</i> , <b>2004</b> , 455-456, 120-123	0.4	

- 10 Role of the Density of States in the Colour Selection of the Collection Spectrum of Amorphous Silicon-Based Schottky Photodiodes. *Key Engineering Materials*, **2002**, 230-232, 559-562 0.4
- 9 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
- 8 The properties of a-Si:H films deposited on Mylar substrates by hot-wire plasma assisted technique. *Journal of Non-Crystalline Solids*, **2002**, 299-302, 30-35 3.9
- 7 Correlation Between the Tunnelling Oxide and I-V Curves of MIS Photodiodes. *Materials Research Society Symposia Proceedings*, **2003**, 762, 18161
- 6 Metal Oxide Nanoparticle Engineering for Printed Electrochemical Applications **2016**, 783-818
- 5 Electrochemical Transistor Based on Tungsten Oxide with Optoelectronic Properties. *IFIP Advances in Information and Communication Technology*, **2016**, 542-550 0.5
- 4 Oxide nanoparticle hybrid materials and applications **2019**, 235-281
- 3 Electronic applications of oxide nanostructures **2019**, 149-197
- 2 Conclusions and future perspectives **2019**, 283-295
- 1 43.1: Invited Paper: Functional Oxides to serve the Electronics Challenges of the Future. *Digest of Technical Papers SID International Symposium*, **2021**, 52, 537-538 0.5