

# Pedro Barquinha

## List of Publications by Year in descending order

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191  
papers

12,205  
citations

41627

51  
h-index

30277

107  
g-index

206  
all docs

206  
docs citations

206  
times ranked

11482  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tailoring the synaptic properties of a-IGZO memristors for artificial deep neural networks. APL Materials, 2022, 10, .	2.2	26
2	Smart textile lighting/display system with multifunctional fibre devices for large scale smart home and IoT applications. Nature Communications, 2022, 13, 814.	5.8	80
3	Physical parameters based analytical I-V model of long and short channel a-IGZO TFTs. Solid-State Electronics, 2022, 192, 108273.	0.8	4
4	Solution Combustion Synthesis of Hafnium-Doped Indium Oxide Thin Films for Transparent Conductors. Nanomaterials, 2022, 12, 2167.	1.9	3
5	Microwave-Assisted Synthesis of Zn <sub>2</sub> SnO <sub>4</sub> Nanostructures for Photodegradation of Rhodamine B under UV and Sunlight. Nanomaterials, 2022, 12, 2119.	1.9	5
6	Optimization of ZnO Nanorods Concentration in a Micro-Structured Polymeric Composite for Nanogenerators. Chemosensors, 2021, 9, 27.	1.8	10
7	Shape Effect of Zinc-Tin Oxide Nanostructures on Photodegradation of Methylene Blue and Rhodamine B under UV and Visible Light. ACS Applied Nano Materials, 2021, 4, 1149-1161.	2.4	25
8	Enhanced solar photocatalysis of TiO <sub>2</sub> nanoparticles and nanostructured thin films grown on paper. Nano Express, 2021, 2, 040002.	1.2	8
9	Cellulose: A Contribution for the Zero Waste Challenge. Advanced Materials Technologies, 2021, 6, .	3.0	56
10	Towards Sustainable Crossbar Artificial Synapses with Zinc-Tin Oxide. Electronic Materials, 2021, 2, 105-115.	0.9	7
11	On-chip power supply generation for self-contained electronics using oxide thin-film transistors. International Journal of Circuit Theory and Applications, 2021, 49, 2112-2121.	1.3	4
12	Mostly Passive $\hat{I}^n$ - $\hat{I}^n$ ADC with a-IGZO TFTs for Flexible Electronics. , 2021, , .		3
13	Transparent and Flexible Electrocardiography Electrode Arrays Based on Silver Nanowire Networks for Neural Recordings. ACS Applied Nano Materials, 2021, 4, 5737-5747.	2.4	14
14	Microwave-Assisted Hydrothermal Synthesis of Zn <sub>2</sub> SnO <sub>4</sub> Nanostructures for Photocatalytic Dye Degradation. Materials Proceedings, 2021, 4, 92.	0.2	0
15	A Model-oriented Methodology for the Automatic Parameter Extraction of TFT Model. , 2021, , .		1
16	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.	0.1	0
17	New strategies toward high-performance and low-temperature processing of solution-based metal oxide TFTs. , 2021, , 585-621.		4
18	Fast and Low-Cost Synthesis of MoS <sub>2</sub> Nanostructures on Paper Substrates for Near-Infrared Photodetectors. Applied Sciences (Switzerland), 2021, 11, 1234.	1.3	19

#	ARTICLE	IF	CITATIONS
19	Porous PDMS conformable coating for high power output carbon fibers/ZnO nanorod-based triboelectric energy harvesters. Nano Energy, 2021, 90, 106582.	8.2	11
20	Ta2O5/SiO2 Multicomponent Dielectrics for Amorphous Oxide TFTs. Electronic Materials, 2021, 2, 1-16.	0.9	6
21	Trade-offs and Limitations in Energy-Efficient Inverter-based CMOS Amplifiers. , 2021, , .		1
22	Design of a Ring-Amplifier Robust Against PVT Variations in Deep-Nanoscale FinFET CMOS. , 2021, , .		1
23	Low-Power Ethanol Sensor Read-Out Circuit using a-InGaZnO TFTs. , 2020, , .		4
24	High Speed Operational Amplifier using a-InGaZnO TFTs with Negative Capacitance. , 2020, , .		2
25	Low-Voltage High-Speed Ring Oscillator With a-InGaZnO TFTs. IEEE Journal of the Electron Devices Society, 2020, 8, 584-588.	1.2	11
26	Piezoelectricity Enhancement of Nanogenerators Based on PDMS and ZnSnO <sub>3</sub> Nanowires through Microstructuration. ACS Applied Materials & Interfaces, 2020, 12, 18421-18430.	4.0	63
27	Rail-to-Rail Timing Signals Generation Using InGaZnO TFTs For Flexible X-Ray Detector. IEEE Journal of the Electron Devices Society, 2020, 8, 157-162.	1.2	17
28	Positiveâ€negative DCâ€DC converter using amorphousâ€InGaZnO TFTs. International Journal of Circuit Theory and Applications, 2020, 48, 394-405.	1.3	7
29	High gain operational amplifier and a comparator with aâ€IGZO TFTs. IET Circuits, Devices and Systems, 2020, 14, 1214-1219.	0.9	5
30	Growth Mechanism of Seed-Layer Free ZnSnO <sub>3</sub> Nanowires: Effect of Physical Parameters. Nanomaterials, 2019, 9, 1002.	1.9	18
31	Tailoring IGZO Composition for Enhanced Fully Solution-Based Thin Film Transistors. Nanomaterials, 2019, 9, 1273.	1.9	46
32	Low-Power Switched Operational Amplifier Using a-InGaZnO TFTs. Communications in Computer and Information Science, 2019, , 370-379.	0.4	1
33	Metal oxide nanostructures for sensor applications. Semiconductor Science and Technology, 2019, 34, 043001.	1.0	201
34	Oxide TFT Rectifiers on Flexible Substrates Operating at NFC Frequency Range. IEEE Journal of the Electron Devices Society, 2019, 7, 329-334.	1.2	20
35	Bootstrapping Circuit with IGZO TFTs for On-Chip Power Supply Generation. , 2019, , .		2
36	Role of Structure and Composition on the Performances of P-Type Tin Oxide Thin-Film Transistors Processed at Low-Temperatures. Nanomaterials, 2019, 9, 320.	1.9	28

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37	Human-motion interactive energy harvester based on polyaniline functionalized textile fibers following metal/polymer mechano-responsive charge transfer mechanism. Nano Energy, 2019, 60, 794-801.	8.2	19
38	Structural, optical, and electronic properties of metal oxide nanostructures. , 2019, , 59-102.		6
39	Oxide nanoparticle hybrid materials and applications. , 2019, , 235-281.		1
40	Chromogenic applications. , 2019, , 103-147.		3
41	Electronic applications of oxide nanostructures. , 2019, , 149-197.		0
42	Oxide materials for energy applications. , 2019, , 199-234.		1
43	Conclusions and future perspectives. , 2019, , 283-295.		0
44	Synthesis, design, and morphology of metal oxide nanostructures. , 2019, , 21-57.		32
45	Sixth-order differential Sallen-Key switched capacitor LPF using a-IGZO TFTs. International Journal of Circuit Theory and Applications, 2019, 47, 32-42.	1.3	7
46	Enhanced UV Flexible Photodetectors and Photocatalysts Based on TiO2 Nanoplatfoms. Topics in Catalysis, 2018, 61, 1591-1606.	1.3	24
47	A Low-Power Rail-to-Rail Row/Column Selector Operating at 2V Using a-IGZO TFTs for Flexible Displays. , 2018, , .		3
48	A Comparitive Study of On-Chip Clock Generators Using a-IGZO TFTs for Flexible Electronic Systems. , 2018, , .		4
49	A High Speed Programmable Ring Oscillator Using InGaZnO Thin-Film Transistors. , 2018, , .		8
50	Does Impedance Matter When Recording Spikes With Polytrodes?. Frontiers in Neuroscience, 2018, 12, 715.	1.4	74
51	Papertronics: Multigate paper transistor for multifunction applications. Applied Materials Today, 2018, 12, 402-414.	2.3	68
52	A Sustainable Approach to Flexible Electronics with Zinc-Tin Oxide Thin-Film Transistors. Advanced Electronic Materials, 2018, 4, 1800032.	2.6	76
53	P&#132: Mechanical Deformation-Aware TFT Modeling for Highly Flexible Wearable Electronics Design. Digest of Technical Papers SID International Symposium, 2018, 49, 1905-1908.	0.1	0
54	Passive radiofrequency x-ray dosimeter tag based on flexible radiation-sensitive oxide field-effect transistor. Science Advances, 2018, 4, eaat1825.	4.7	30

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55	High-Gain Transimpedance Amplifier for Flexible Radiation Dosimetry Using InGaZnO TFTs. IEEE Journal of the Electron Devices Society, 2018, 6, 760-765.	1.2	31
56	Seed-Layer Free Zinc Tin Oxide Tailored Nanostructures for Nanoelectronic Applications: Effect of Chemical Parameters. ACS Applied Nano Materials, 2018, 1, 3986-3997.	2.4	22
57	A Voltage Controlled Oscillator Using IGZO Thin-Film Transistors. , 2018, , .		6
58	A High-resolution $\hat{I}^n$ -Modulator ADC with Oversampling and Noise-shaping for IoT. , 2018, , .		2
59	Solution based zinc tin oxide TFTs: the dual role of the organic solvent. Journal Physics D: Applied Physics, 2017, 50, 065106.	1.3	28
60	A Low-Power Analog Adder and Driver Using a-IGZO TFTs. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 1118-1125.	3.5	13
61	Threshold voltage extraction techniques adaptable from sub- $\mu$ m CMOS to large-area oxide TFT technologies. International Journal of Circuit Theory and Applications, 2017, 45, 2201-2210.	1.3	7
62	Energy-dependent relaxation time in quaternary amorphous oxide semiconductors probed by gated Hall effect measurements. Physical Review B, 2017, 95, .	1.1	10
63	Boosting Electrical Performance of High- $\hat{I}^p$ Nanomultilayer Dielectrics and Electronic Devices by Combining Solution Combustion Synthesis and UV Irradiation. ACS Applied Materials & Interfaces, 2017, 9, 40428-40437.	4.0	53
64	Photocatalytic TiO <sub>2</sub> Nanorod Spheres and Arrays Compatible with Flexible Applications. Catalysts, 2017, 7, 60.	1.6	58
65	Bias Stress and Temperature Impact on InGaZnO TFTs and Circuits. Materials, 2017, 10, 680.	1.3	23
66	Transistors: Solid State Electrochemical WO <sub>3</sub> Transistors with High Current Modulation (Adv. Electron. Mater. 9/2016). Advanced Electronic Materials, 2016, 2, .	2.6	1
67	Basic analog and digital circuits with a-IGZO TFTs. , 2016, , .		5
68	Validating silicon polytrodes with paired juxtacellular recordings: method and dataset. Journal of Neurophysiology, 2016, 116, 892-903.	0.9	81
69	Interpreting anomalies observed in oxide semiconductor TFTs under negative and positive bias stress. AIP Advances, 2016, 6, .	0.6	21
70	Improving positive and negative bias illumination stress stability in parylene passivated IGZO transistors. Applied Physics Letters, 2016, 109, .	1.5	58
71	A thermalization energy analysis of the threshold voltage shift in amorphous indium gallium zinc oxide thin film transistors under positive gate bias stress. Applied Physics Letters, 2016, 108, .	1.5	24
72	Gap states in the electronic structure of SnO <sub>2</sub> single crystals and amorphous SnO <sub>x</sub> thin films. Journal of Applied Physics, 2016, 120, .	1.1	21

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73	Oxide TFTs on Flexible Substrates for Designing and Fabricating Analog-to-Digital Converters. IFIP Advances in Information and Communication Technology, 2016, , 533-541.	0.5	0
74	Electrochemical Transistor Based on Tungsten Oxide with Optoelectronic Properties. IFIP Advances in Information and Communication Technology, 2016, , 542-550.	0.5	0
75	TCAD Simulation of Amorphous Indium-Gallium-Zinc Oxide Thin-Film Transistors. IFIP Advances in Information and Communication Technology, 2016, , 551-557.	0.5	1
76	Influence of Channel Length Scaling on InGaZnO TFTs Characteristics: Unity Current-Gain Cutoff Frequency, Intrinsic Voltage-Gain, and On-Resistance. Journal of Display Technology, 2016, 12, 515-518.	1.3	34
77	Charging effects and surface potential variations of Cu-based nanowires. Thin Solid Films, 2016, 601, 45-53.	0.8	14
78	Transparent field-effect transistors based on AlN-gate dielectric and IGZO-channel semiconductor. Applied Surface Science, 2016, 379, 270-276.	3.1	17
79	The 2016 oxide electronic materials and oxide interfaces roadmap. Journal Physics D: Applied Physics, 2016, 49, 433001.	1.3	266
80	A compact model and direct parameters extraction techniques For amorphous gallium-indium-zinc-oxide thin film transistors. Solid-State Electronics, 2016, 126, 81-86.	0.8	24
81	A high-gain, high-speed parametric residue amplifier for SAR-assisted pipeline ADCs. , 2016, , .		1
82	Solid State Electrochemical WO <sub>3</sub> Transistors with High Current Modulation. Advanced Electronic Materials, 2016, 2, 1500414.	2.6	24
83	Novel linear analog-adder using a-IGZO TFTs. , 2016, , .		0
84	UV-Mediated Photochemical Treatment for Low-Temperature Oxide-Based Thin-Film Transistors. ACS Applied Materials & Interfaces, 2016, 8, 31100-31108.	4.0	61
85	A spectroscopic comparison of IGZO thin films and the parent In <sub>2</sub> O <sub>3</sub> , Ga <sub>2</sub> O <sub>3</sub> , and ZnO single crystals. Materials Research Express, 2016, 3, 106302.	0.8	9
86	Radiation-Tolerant Flexible Large-Area Electronics Based on Oxide Semiconductors. Advanced Electronic Materials, 2016, 2, 1500489.	2.6	41
87	InGaZnO TFT behavioral model for IC design. Analog Integrated Circuits and Signal Processing, 2016, 87, 73-80.	0.9	20
88	Photocatalytic behavior of TiO <sub>2</sub> films synthesized by microwave irradiation. Catalysis Today, 2016, 278, 262-270.	2.2	37
89	InGaZnO Thin-Film-Transistor-Based Four-Quadrant High-Gain Analog Multiplier on Glass. IEEE Electron Device Letters, 2016, 37, 419-421.	2.2	12
90	Operational stability of solution based zinc tin oxide/SiO <sub>2</sub> thin film transistors under gate bias stress. APL Materials, 2015, 3, 062804.	2.2	10

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91	Analog Circuits With High-Gain Topologies Using a-GIZO TFTs on Glass. Journal of Display Technology, 2015, 11, 547-553.	1.3	34
92	a-GIZO TFT neural modeling, circuit simulation and validation. Solid-State Electronics, 2015, 105, 30-36.	0.8	11
93	Solvothermal Synthesis of Gallium-Indium-Zinc-Oxide Nanoparticles for Electrolyte-Gated Transistors. ACS Applied Materials & Interfaces, 2015, 7, 638-646.	4.0	35
94	Towards environmental friendly solution-based ZTO/AlO <sub>3</sub> TFTs. Semiconductor Science and Technology, 2015, 30, 024007.	1.0	46
95	A multi-integrated approach on toxicity effects of engineered TiO <sub>2</sub> nanoparticles. Frontiers of Environmental Science and Engineering, 2015, 9, 793-803.	3.3	19
96	Flexible and Transparent WO <sub>3</sub> Transistor with Electrical and Optical Modulation. Advanced Electronic Materials, 2015, 1, 1500030.	2.6	31
97	Design of a robust general-purpose low-offset comparator based on IGZO thin-film transistors. , 2015, , .		5
98	Room Temperature Synthesis of Cu <sub>2</sub> O Nanospheres: Optical Properties and Thermal Behavior. Microscopy and Microanalysis, 2015, 21, 108-119.	0.2	13
99	Transparent Current Mirrors Using a-GIZO TFTs: Simulation with RBF Models and Fabrication. , 2014, , .		2
100	Contact Effects in Amorphous InGaZnO Thin Film Transistors. Journal of Display Technology, 2014, 10, 956-961.	1.3	25
101	Aqueous Combustion Synthesis of Aluminum Oxide Thin Films and Application as Gate Dielectric in GZTO Solution-Based TFTs. ACS Applied Materials & Interfaces, 2014, 6, 19592-19599.	4.0	107
102	Cu <sub>2</sub> O polyhedral nanowires produced by microwave irradiation. Journal of Materials Chemistry C, 2014, 2, 6097.	2.7	39
103	Electronic structure of amorphous ZnO films. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1476-1480.	0.8	17
104	WO <sub>3</sub> Nanoparticle-Based Conformable pH Sensor. ACS Applied Materials & Interfaces, 2014, 6, 12226-12234.	4.0	140
105	Recyclable, Flexible, Low-Power Oxide Electronics. Advanced Functional Materials, 2013, 23, 2153-2161.	7.8	124
106	Extended-Gate ISFETs Based on Sputtered Amorphous Oxides. Journal of Display Technology, 2013, 9, 729-734.	1.3	16
107	Plastic Compatible Sputtered $\text{Ta}_2\text{O}_5$ Sensitive Layer for Oxide Semiconductor TFT Sensors. Journal of Display Technology, 2013, 9, 723-728.	1.3	8
108	Performances of Microcrystalline Zinc Tin Oxide Thin-Film Transistors Processed by Spray Pyrolysis. Journal of Display Technology, 2013, 9, 825-831.	1.3	6

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109	Comparative study of transparent rectifying contacts on semiconducting oxide single crystals and amorphous thin films. <i>Journal of Applied Physics</i> , 2013, 113, .	1.1	22
110	Transparent Current Mirrors With a-GIZO TFTs: Neural Modeling, Simulation and Fabrication. <i>Journal of Display Technology</i> , 2013, 9, 1001-1006.	1.3	22
111	High-gain amplifier with n-type transistors. , 2013, , .		10
112	High-gain topologies for transparent electronics. , 2013, , .		7
113	Role of a disperse carbon interlayer on the performances of tandem a-Si solar cells. <i>Science and Technology of Advanced Materials</i> , 2013, 14, 045009.	2.8	6
114	Foreword [Special Issue on the 8th International Thin-Film Transistor Conference (ITC 2012)]. <i>Journal of Display Technology</i> , 2013, 9, 687-687.	1.3	0
115	Studies on deuterium retention in W-Ta based materials. <i>Microscopy and Microanalysis</i> , 2013, 19, 125-126.	0.2	0
116	Enigmatic reticulated filaments in subsurface granite. <i>Environmental Microbiology Reports</i> , 2012, 4, 596-603.	1.0	28
117	Gold on paper – paper platform for Au-nanoprobe TB detection. <i>Lab on A Chip</i> , 2012, 12, 4802.	3.1	129
118	P-type oxide-based thin film transistors produced at low temperatures. , 2012, , .		12
119	Multicomponent dielectrics for oxide TFT. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
120	Multipliers with transparent a-GIZO TFTs using a neural model. , 2012, , .		2
121	Basic analog circuits with a-GIZO thin-film transistors: Modeling and simulation. , 2012, , .		11
122	Oxide Semiconductor Thin-Film Transistors: A Review of Recent Advances. <i>Advanced Materials</i> , 2012, 24, 2945-2986.	11.1	2,590
123	N-Type Oxide Semiconductor Thin-Film Transistors. <i>Springer Series in Materials Science</i> , 2012, , 435-476.	0.4	4
124	Thin-Film Transistors Based on Indium Molybdenum Oxide Semiconductor Layers Sputtered at Room Temperature. <i>IEEE Electron Device Letters</i> , 2011, 32, 1391-1393.	2.2	14
125	Role of Ga <sub>2</sub> O <sub>3</sub> – In <sub>2</sub> O <sub>3</sub> – ZnO channel composition on the electrical performance of thin-film transistors. <i>Materials Chemistry and Physics</i> , 2011, 131, 512-518.	2.0	134
126	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> , 2011, 8, 340-345.	1.6	30



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127	Complementary Metal Oxide Semiconductor Technology With and On Paper. <i>Advanced Materials</i> , 2011, 23, 4491-4496.	11.1	235
128	Solid-state paper batteries for controlling paper transistors. <i>Electrochimica Acta</i> , 2011, 56, 1099-1105.	2.6	35
129	Away from silicon era: the paper electronics. <i>Proceedings of SPIE</i> , 2011, , .	0.8	6
130	Floating gate memory paper transistor. , 2010, , .		1
131	Nanostructured Silicon Based Thin Film Transistors Processed in the Plasma Dark Region. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 2938-2943.	0.9	0
132	High Mobility a-IGO Films Produced at Room Temperature and Their Application in TFTs. <i>Electrochemical and Solid-State Letters</i> , 2010, 13, H20.	2.2	52
133	Transparent p-type SnOx thin film transistors produced by reactive rf magnetron sputtering followed by low temperature annealing. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	264
134	Zinc concentration dependence study of solution processed amorphous indium gallium zinc oxide thin film transistors using high-k dielectric. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	70
135	Low-temperature processed Schottky-gated field-effect transistors based on amorphous gallium-indium-zinc-oxide thin films. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	52
136	Self-Rechargeable Paper Thin-Film Batteries: Performance and Applications. <i>Journal of Display Technology</i> , 2010, 6, 332-335.	1.3	46
137	Thin-film transistors based on p-type Cu2O thin films produced at room temperature. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	160
138	Low-temperature sputtered mixtures of high- $\kappa$ and high bandgap dielectrics for GIZO TFTs. <i>Journal of the Society for Information Display</i> , 2010, 18, 762-772.	0.8	43
139	Insight on the SU-8 resist as passivation layer for transparent Ga2O3-In2O3-ZnO thin-film transistors. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	83
140	Performance and Stability of Low Temperature Transparent Thin-Film Transistors Using Amorphous Multicomponent Dielectrics. <i>Journal of the Electrochemical Society</i> , 2009, 156, H824.	1.3	70
141	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> , 2009, 12, G65.	2.2	22
142	Self-sustained n-type memory transistor devices based on natural cellulose paper fibers. <i>Journal of Information Display</i> , 2009, 10, 149-157.	2.1	7
143	Paper field effect transistor. <i>Proceedings of SPIE</i> , 2009, , .	0.8	4
144	Gate-bias stress in amorphous oxide semiconductors thin-film transistors. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	213

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145	Oxide semiconductors: Order within the disorder. Philosophical Magazine, 2009, 89, 2741-2758.	0.7	27
146	Zinc oxide, a multifunctional material: from material to device applications. Applied Physics A: Materials Science and Processing, 2009, 96, 197-205.	1.1	149
147	Sputtered multicomponent amorphous dielectrics for transparent electronics. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2149-2154.	0.8	18
148	Selective floating gate non-volatile paper memory transistor. Physica Status Solidi - Rapid Research Letters, 2009, 3, 308-310.	1.2	43
149	Toward High-Performance Amorphous GIZO TFTs. Journal of the Electrochemical Society, 2009, 156, H161.	1.3	235
150	Polymer light-emitting diodes with amorphous indium-zinc oxide anodes deposited at room temperature. Synthetic Metals, 2009, 159, 1112-1115.	2.1	15
151	Zinc oxide and related compounds: order within the disorder. Proceedings of SPIE, 2009, , .	0.8	0
152	Effect of annealing on the properties of N-doped ZnO films deposited by RF magnetron sputtering. Applied Surface Science, 2008, 254, 7178-7182.	3.1	27
153	Crystallization of amorphous indium zinc oxide thin films produced by radio-frequency magnetron sputtering. Thin Solid Films, 2008, 516, 1374-1376.	0.8	44
154	The role of source and drain material in the performance of GIZO based thin-film transistors. Physica Status Solidi (A) Applications and Materials Science, 2008, 205, 1905-1909.	0.8	32
155	Effect of post-annealing on the properties of copper oxide thin films obtained from the oxidation of evaporated metallic copper. Applied Surface Science, 2008, 254, 3949-3954.	3.1	226
156	Highly stable transparent and conducting gallium-doped zinc oxide thin films for photovoltaic applications. Solar Energy Materials and Solar Cells, 2008, 92, 1605-1610.	3.0	151
157	High mobility and low threshold voltage transparent thin film transistors based on amorphous indium zinc oxide semiconductors. Solid-State Electronics, 2008, 52, 443-448.	0.8	79
158	High k dielectrics for low temperature electronics. Thin Solid Films, 2008, 516, 1544-1548.	0.8	58
159	Electron transport in single and multicomponent n-type oxide semiconductors. Thin Solid Films, 2008, 516, 1322-1325.	0.8	24
160	Gallium-Indium-Zinc-Oxide-Based Thin-Film Transistors: Influence of the Source/Drain Material. IEEE Transactions on Electron Devices, 2008, 55, 954-960.	1.6	185
161	High-Performance Flexible Hybrid Field-Effect Transistors Based on Cellulose Fiber Paper. IEEE Electron Device Letters, 2008, 29, 988-990.	2.2	245
162	Low temperature high k dielectric on poly-Si TFTs. Journal of Non-Crystalline Solids, 2008, 354, 2534-2537.	1.5	9

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163	The Effect of Deposition Conditions and Annealing on the Performance of High-Mobility GIZO TFTs. <i>Electrochemical and Solid-State Letters</i> , 2008, 11, H248.	2.2	101
164	High mobility indium free amorphous oxide thin film transistors. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	210
165	Write-erase and read paper memory transistor. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	127
166	New Amorphous Oxide Semiconductor for Thin Film Transistors (TFTs). <i>Materials Science Forum</i> , 2008, 587-588, 348-352.	0.3	1
167	Role of order and disorder on the electronic performances of oxide semiconductor thin film transistors. <i>Journal of Applied Physics</i> , 2007, 101, 044505.	1.1	192
168	Influence of post-annealing temperature on the properties exhibited by ITO, IZO and GZO thin films. <i>Thin Solid Films</i> , 2007, 515, 8562-8566.	0.8	139
169	Amorphous IZO TFTs with saturation mobilities exceeding 100 cm <sup>2</sup> /Vs. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007, 1, R34-R36.	1.2	171
170	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> , 2007, 89, 37-42.	1.1	44
171	3 dimensional polymorphous silicon based metal-insulator-semiconductor position sensitive detectors. <i>Thin Solid Films</i> , 2007, 515, 7530-7533.	0.8	3
172	Effect of annealing temperature on the properties of IZO films and IZO based transparent TFTs. <i>Thin Solid Films</i> , 2007, 515, 8450-8454.	0.8	95
173	Impedance study of the electrical properties of poly-Si thin film transistors. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1737-1740.	1.5	3
174	Influence of the semiconductor thickness on the electrical properties of transparent TFTs based on indium zinc oxide. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1749-1752.	1.5	196
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> , 2006, 352, 1756-1760.	1.5	89
176	Electron transport and optical characteristics in amorphous indium zinc oxide films. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1471-1474.	1.5	83
177	Low temperature processed hafnium oxide: Structural and electrical properties. <i>Materials Science in Semiconductor Processing</i> , 2006, 9, 1125-1132.	1.9	27
178	Influence of time, light and temperature on the electrical properties of zinc oxide TFTs. <i>Superlattices and Microstructures</i> , 2006, 39, 319-327.	1.4	29
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