

Pedro Barquinha

List of Publications by Year in descending order

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191
papers

12,205
citations

36303

51
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26613

107
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206
all docs

206
docs citations

206
times ranked

10098
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxide Semiconductor Thin-Film Transistors: A Review of Recent Advances. <i>Advanced Materials</i> , 2012, 24, 2945-2986.	21.0	2,590
2	Fully Transparent ZnO Thin-Film Transistor Produced at Room Temperature. <i>Advanced Materials</i> , 2005, 17, 590-594.	21.0	787
3	Wide-bandgap high-mobility ZnO thin-film transistors produced at room temperature. <i>Applied Physics Letters</i> , 2004, 85, 2541-2543.	3.3	500
4	Recent advances in ZnO transparent thin film transistors. <i>Thin Solid Films</i> , 2005, 487, 205-211.	1.8	335
5	The 2016 oxide electronic materials and oxide interfaces roadmap. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 433001.	2.8	266
6	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, .	3.3	264
7	High-Performance Flexible Hybrid Field-Effect Transistors Based on Cellulose Fiber Paper. <i>IEEE Electron Device Letters</i> , 2008, 29, 988-990.	3.9	245
8	Toward High-Performance Amorphous GIZO TFTs. <i>Journal of the Electrochemical Society</i> , 2009, 156, H161.	2.9	235
9	Complementary Metal Oxide Semiconductor Technology With and On Paper. <i>Advanced Materials</i> , 2011, 23, 4491-4496.	21.0	235
10	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> , 2008, 254, 3949-3954.	6.1	226
11	Gate-bias stress in amorphous oxide semiconductors thin-film transistors. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	213
12	High mobility indium free amorphous oxide thin film transistors. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	210
13	Metal oxide nanostructures for sensor applications. <i>Semiconductor Science and Technology</i> , 2019, 34, 043001.	2.0	201
14	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.	3.1	196
15	Role of order and disorder on the electronic performances of oxide semiconductor thin film transistors. <i>Journal of Applied Physics</i> , 2007, 101, 044505.	2.5	192
16	Gallium-Indium-Zinc-Oxide-Based Thin-Film Transistors: Influence of the Source/Drain Material. <i>IEEE Transactions on Electron Devices</i> , 2008, 55, 954-960.	3.0	185
17	Amorphous IZO TFTs with saturation mobilities exceeding 100 cm ² /Vs. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007, 1, R34-R36.	2.4	171
18	Thin-film transistors based on p-type Cu ₂ O thin films produced at room temperature. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	160

#	ARTICLE	IF	CITATIONS
19	Highly stable transparent and conducting gallium-doped zinc oxide thin films for photovoltaic applications. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1605-1610.	6.2	151
20	Zinc oxide, a multifunctional material: from material to device applications. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 96, 197-205.	2.3	149
21	WO ₃ Nanoparticle-Based Conformable pH Sensor. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 12226-12234.	8.0	140
22	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.	1.8	139
23	Role of Ga ₂ O ₃ –In ₂ O ₃ –ZnO channel composition on the electrical performance of thin-film transistors. <i>Materials Chemistry and Physics</i> , 2011, 131, 512-518.	4.0	134
24	Gold on paper—paper platform for Au-nanoprobe TB detection. <i>Lab on A Chip</i> , 2012, 12, 4802.	6.0	129
25	Write-erase and read paper memory transistor. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	127
26	Recyclable, Flexible, Low-Power Oxide Electronics. <i>Advanced Functional Materials</i> , 2013, 23, 2153-2161.	14.9	124
27	Transport in high mobility amorphous wide band gap indium zinc oxide films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005, 202, R95-R97.	1.8	113
28	Aqueous Combustion Synthesis of Aluminum Oxide Thin Films and Application as Gate Dielectric in GZTO Solution-Based TFTs. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 19592-19599.	8.0	107
29	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
30	Effect of annealing temperature on the properties of IZO films and IZO based transparent TFTs. <i>Thin Solid Films</i> , 2007, 515, 8450-8454.	1.8	95
31	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.	3.1	89
32	Electron transport and optical characteristics in amorphous indium zinc oxide films. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1471-1474.	3.1	83
33	Insight on the SU-8 resist as passivation layer for transparent Ga ₂ O ₃ –In ₂ O ₃ –ZnO thin-film transistors. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	83
34	Validating silicon polytrodes with paired juxtacellular recordings: method and dataset. <i>Journal of Neurophysiology</i> , 2016, 116, 892-903.	1.8	81
35	Smart textile lighting/display system with multifunctional fibre devices for large scale smart home and IoT applications. <i>Nature Communications</i> , 2022, 13, 814.	12.8	80
36	High mobility and low threshold voltage transparent thin film transistors based on amorphous indium zinc oxide semiconductors. <i>Solid-State Electronics</i> , 2008, 52, 443-448.	1.4	79

#	ARTICLE	IF	CITATIONS
37	A Sustainable Approach to Flexible Electronics with Zinc-Tin Oxide Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2018, 4, 1800032.	5.1	76
38	Does Impedance Matter When Recording Spikes With Polytrodes?. <i>Frontiers in Neuroscience</i> , 2018, 12, 715.	2.8	74
39	Performance and Stability of Low Temperature Transparent Thin-Film Transistors Using Amorphous Multicomponent Dielectrics. <i>Journal of the Electrochemical Society</i> , 2009, 156, H824.	2.9	70
40	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, .	3.3	70
41	Papertronics: Multigate paper transistor for multifunction applications. <i>Applied Materials Today</i> , 2018, 12, 402-414.	4.3	68
42	Piezoelectricity Enhancement of Nanogenerators Based on PDMS and ZnSnO ₃ Nanowires through Microstructuration. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18421-18430.	8.0	63
43	UV-Mediated Photochemical Treatment for Low-Temperature Oxide-Based Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 31100-31108.	8.0	61
44	High k dielectrics for low temperature electronics. <i>Thin Solid Films</i> , 2008, 516, 1544-1548.	1.8	58
45	Improving positive and negative bias illumination stress stability in parylene passivated IGZO transistors. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	58
46	Photocatalytic TiO ₂ Nanorod Spheres and Arrays Compatible with Flexible Applications. <i>Catalysts</i> , 2017, 7, 60.	3.5	58
47	Cellulose: A Contribution for the Zero Waste Challenge. <i>Advanced Materials Technologies</i> , 2021, 6, .	5.8	56
48	Boosting Electrical Performance of High- ϵ_r Nanomultilayer Dielectrics and Electronic Devices by Combining Solution Combustion Synthesis and UV Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 40428-40437.	8.0	53
49	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
50	Low-temperature processed Schottky-gated field-effect transistors based on amorphous gallium-indium-zinc-oxide thin films. <i>Applied Physics Letters</i> , 2010, 97, .	3.3	52
51	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> , 2005, 118, 210-213.	3.5	51
52	Self-Rechargeable Paper Thin-Film Batteries: Performance and Applications. <i>Journal of Display Technology</i> , 2010, 6, 332-335.	1.2	46
53	Towards environmental friendly solution-based ZTO/AlO _x TFTs. <i>Semiconductor Science and Technology</i> , 2015, 30, 024007.	2.0	46
54	Tailoring IGZO Composition for Enhanced Fully Solution-Based Thin Film Transistors. <i>Nanomaterials</i> , 2019, 9, 1273.	4.1	46

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55	Role of order and disorder in covalent semiconductors and ionic oxides used to produce thin film transistors. Applied Physics A: Materials Science and Processing, 2007, 89, 37-42.	2.3	44
56	Crystallization of amorphous indium zinc oxide thin films produced by radio-frequency magnetron sputtering. Thin Solid Films, 2008, 516, 1374-1376.	1.8	44
57	Selective floating gate non-volatile paper memory transistor. Physica Status Solidi - Rapid Research Letters, 2009, 3, 308-310.	2.4	43
58	Low-temperature sputtered mixtures of high- κ and high bandgap dielectrics for GIZO TFTs. Journal of the Society for Information Display, 2010, 18, 762-772.	2.1	43
59	Radiation-Tolerant Flexible Large-Area Electronics Based on Oxide Semiconductors. Advanced Electronic Materials, 2016, 2, 1500489.	5.1	41
60	Cu ₂ O polyhedral nanowires produced by microwave irradiation. Journal of Materials Chemistry C, 2014, 2, 6097.	5.5	39
61	Photocatalytic behavior of TiO ₂ films synthesized by microwave irradiation. Catalysis Today, 2016, 278, 262-270.	4.4	37
62	Solid-state paper batteries for controlling paper transistors. Electrochimica Acta, 2011, 56, 1099-1105.	5.2	35
63	Solvothermal Synthesis of Gallium-Indium-Zinc-Oxide Nanoparticles for Electrolyte-Gated Transistors. ACS Applied Materials & Interfaces, 2015, 7, 638-646.	8.0	35
64	Analog Circuits With High-Gain Topologies Using a-GIZO TFTs on Glass. Journal of Display Technology, 2015, 11, 547-553.	1.2	34
65	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.	1.2	34
66	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.	1.8	32
67	Synthesis, design, and morphology of metal oxide nanostructures. , 2019, , 21-57.		32
68	Flexible and Transparent WO ₃ Transistor with Electrical and Optical Modulation. Advanced Electronic Materials, 2015, 1, 1500030.	5.1	31
69	High-Gain Transimpedance Amplifier for Flexible Radiation Dosimetry Using InGaZnO TFTs. IEEE Journal of the Electron Devices Society, 2018, 6, 760-765.	2.1	31
70	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. Plasma Processes and Polymers, 2011, 8, 340-345.	3.0	30
71	Passive radiofrequency x-ray dosimeter tag based on flexible radiation-sensitive oxide field-effect transistor. Science Advances, 2018, 4, eaat1825.	10.3	30
72	Influence of time, light and temperature on the electrical properties of zinc oxide TFTs. Superlattices and Microstructures, 2006, 39, 319-327.	3.1	29

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73	Enigmatic reticulated filaments in subsurface granite. <i>Environmental Microbiology Reports</i> , 2012, 4, 596-603.	2.4	28
74	Solution based zinc tin oxide TFTs: the dual role of the organic solvent. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 065106.	2.8	28
75	Role of Structure and Composition on the Performances of P-Type Tin Oxide Thin-Film Transistors Processed at Low-Temperatures. <i>Nanomaterials</i> , 2019, 9, 320.	4.1	28
76	Low temperature processed hafnium oxide: Structural and electrical properties. <i>Materials Science in Semiconductor Processing</i> , 2006, 9, 1125-1132.	4.0	27
77	Effect of annealing on the properties of N-doped ZnO films deposited by RF magnetron sputtering. <i>Applied Surface Science</i> , 2008, 254, 7178-7182.	6.1	27
78	Oxide semiconductors: Order within the disorder. <i>Philosophical Magazine</i> , 2009, 89, 2741-2758.	1.6	27
79	Tailoring the synaptic properties of a-IGZO memristors for artificial deep neural networks. <i>APL Materials</i> , 2022, 10, .	5.1	26
80	Contact Effects in Amorphous InGaZnO Thin Film Transistors. <i>Journal of Display Technology</i> , 2014, 10, 956-961.	1.2	25
81	Shape Effect of Zinc-Tin Oxide Nanostructures on Photodegradation of Methylene Blue and Rhodamine B under UV and Visible Light. <i>ACS Applied Nano Materials</i> , 2021, 4, 1149-1161.	5.0	25
82	Electron transport in single and multicomponent n-type oxide semiconductors. <i>Thin Solid Films</i> , 2008, 516, 1322-1325.	1.8	24
83	A thermalization energy analysis of the threshold voltage shift in amorphous indium gallium zinc oxide thin film transistors under positive gate bias stress. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	24
84	A compact model and direct parameters extraction techniques For amorphous gallium-indium-zinc-oxide thin film transistors. <i>Solid-State Electronics</i> , 2016, 126, 81-86.	1.4	24
85	Solid State Electrochemical WO ₃ Transistors with High Current Modulation. <i>Advanced Electronic Materials</i> , 2016, 2, 1500414.	5.1	24
86	Enhanced UV Flexible Photodetectors and Photocatalysts Based on TiO ₂ Nanoplatforms. <i>Topics in Catalysis</i> , 2018, 61, 1591-1606.	2.8	24
87	Bias Stress and Temperature Impact on InGaZnO TFTs and Circuits. <i>Materials</i> , 2017, 10, 680.	2.9	23
88	Room-Temperature Cosputtered HfO ₂ –Al ₂ O ₃ Multicomponent Gate Dielectrics. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, G65.	2.2	22
89	Comparative study of transparent rectifying contacts on semiconducting oxide single crystals and amorphous thin films. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	22
90	Transparent Current Mirrors With a-GIZO TFTs: Neural Modeling, Simulation and Fabrication. <i>Journal of Display Technology</i> , 2013, 9, 1001-1006.	1.2	22

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91	Seed-Layer Free Zinc Tin Oxide Tailored Nanostructures for Nanoelectronic Applications: Effect of Chemical Parameters. ACS Applied Nano Materials, 2018, 1, 3986-3997.	5.0	22
92	Interpreting anomalies observed in oxide semiconductor TFTs under negative and positive bias stress. AIP Advances, 2016, 6, .	1.3	21
93	Gap states in the electronic structure of SnO ₂ single crystals and amorphous SnO _x thin films. Journal of Applied Physics, 2016, 120, .	2.5	21
94	InGaZnO TFT behavioral model for IC design. Analog Integrated Circuits and Signal Processing, 2016, 87, 73-80.	1.4	20
95	Oxide TFT Rectifiers on Flexible Substrates Operating at NFC Frequency Range. IEEE Journal of the Electron Devices Society, 2019, 7, 329-334.	2.1	20
96	A multi-integrated approach on toxicity effects of engineered TiO ₂ nanoparticles. Frontiers of Environmental Science and Engineering, 2015, 9, 793-803.	6.0	19
97	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.	16.0	19
98	Fast and Low-Cost Synthesis of MoS ₂ Nanostructures on Paper Substrates for Near-Infrared Photodetectors. Applied Sciences (Switzerland), 2021, 11, 1234.	2.5	19
99	Sputtered multicomponent amorphous dielectrics for transparent electronics. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2149-2154.	1.8	18
100	Growth Mechanism of Seed-Layer Free ZnSnO ₃ Nanowires: Effect of Physical Parameters. Nanomaterials, 2019, 9, 1002.	4.1	18
101	Electronic structure of amorphous ZnO films. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1476-1480.	0.8	17
102	Transparent field-effect transistors based on AlN-gate dielectric and IGZO-channel semiconductor. Applied Surface Science, 2016, 379, 270-276.	6.1	17
103	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.	2.1	17
104	Extended-Gate ISFETs Based on Sputtered Amorphous Oxides. Journal of Display Technology, 2013, 9, 729-734.	1.2	16
105	Polymer light-emitting diodes with amorphous indium-zinc oxide anodes deposited at room temperature. Synthetic Metals, 2009, 159, 1112-1115.	3.9	15
106	Influence of metal induced crystallization parameters on the performance of polycrystalline silicon thin film transistors. Thin Solid Films, 2005, 487, 102-106.	1.8	14
107	Thin-Film Transistors Based on Indium Molybdenum Oxide Semiconductor Layers Sputtered at Room Temperature. IEEE Electron Device Letters, 2011, 32, 1391-1393.	3.9	14
108	Charging effects and surface potential variations of Cu-based nanowires. Thin Solid Films, 2016, 601, 45-53.	1.8	14

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109	Transparent and Flexible Electrocardiography Electrode Arrays Based on Silver Nanowire Networks for Neural Recordings. ACS Applied Nano Materials, 2021, 4, 5737-5747.	5.0	14
110	Room Temperature Synthesis of Cu ₂ O Nanospheres: Optical Properties and Thermal Behavior. Microscopy and Microanalysis, 2015, 21, 108-119.	0.4	13
111	A Low-Power Analog Adder and Driver Using a-IGZO TFTs. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 1118-1125.	5.4	13
112	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
113	P-type oxide-based thin film transistors produced at low temperatures. , 2012, , .		12
114	InGaZnO Thin-Film-Transistor-Based Four-Quadrant High-Gain Analog Multiplier on Glass. IEEE Electron Device Letters, 2016, 37, 419-421.	3.9	12
115	Basic analog circuits with a-GIZO thin-film transistors: Modeling and simulation. , 2012, , .		11
116	a-GIZO TFT neural modeling, circuit simulation and validation. Solid-State Electronics, 2015, 105, 30-36.	1.4	11
117	Low-Voltage High-Speed Ring Oscillator With a-InGaZnO TFTs. IEEE Journal of the Electron Devices Society, 2020, 8, 584-588.	2.1	11
118	Porous PDMS conformable coating for high power output carbon fibers/ZnO nanorod-based triboelectric energy harvesters. Nano Energy, 2021, 90, 106582.	16.0	11
119	High-gain amplifier with n-type transistors. , 2013, , .		10
120	Operational stability of solution based zinc tin oxide/SiO ₂ thin film transistors under gate bias stress. APL Materials, 2015, 3, 062804.	5.1	10
121	Energy-dependent relaxation time in quaternary amorphous oxide semiconductors probed by gated Hall effect measurements. Physical Review B, 2017, 95, .	3.2	10
122	Optimization of ZnO Nanorods Concentration in a Micro-Structured Polymeric Composite for Nanogenerators. Chemosensors, 2021, 9, 27.	3.6	10
123	Low temperature high k dielectric on poly-Si TFTs. Journal of Non-Crystalline Solids, 2008, 354, 2534-2537.	3.1	9
124	A spectroscopic comparison of IGZO thin films and the parent In ₂ O ₃ , Ga ₂ O ₃ , and ZnO single crystals. Materials Research Express, 2016, 3, 106302.	1.6	9
125	Plastic Compatible Sputtered Ta_2O_5 Sensitive Layer for Oxide Semiconductor TFT Sensors. Journal of Display Technology, 2013, 9, 723-728.	1.2	8
126	A High Speed Programmable Ring Oscillator Using InGaZnO Thin-Film Transistors. , 2018, , .		8

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127	Enhanced solar photocatalysis of TiO ₂ nanoparticles and nanostructured thin films grown on paper. Nano Express, 2021, 2, 040002.	2.4	8
128	Self-sustained n-type memory transistor devices based on natural cellulose paper fibers. Journal of Information Display, 2009, 10, 149-157.	4.0	7
129	High-gain topologies for transparent electronics. , 2013, , .		7
130	Threshold voltage extraction techniques adaptable from sub-micron CMOS to large-area oxide TFT technologies. International Journal of Circuit Theory and Applications, 2017, 45, 2201-2210.	2.0	7
131	Sixth-order differential Sallen-Key switched capacitor LPF using a-IGZO TFTs. International Journal of Circuit Theory and Applications, 2019, 47, 32-42.	2.0	7
132	Positive-negative DC-DC converter using amorphous InGaZnO TFTs. International Journal of Circuit Theory and Applications, 2020, 48, 394-405.	2.0	7
133	Towards Sustainable Crossbar Artificial Synapses with Zinc-Tin Oxide. Electronic Materials, 2021, 2, 105-115.	1.9	7
134	Multifunctional Thin Film Zinc Oxide Semiconductors: Application to Electronic Devices. Materials Science Forum, 2006, 514-516, 3-7.	0.3	6
135	Away from silicon era: the paper electronics. Proceedings of SPIE, 2011, , .	0.8	6
136	Performances of Microcrystalline Zinc Tin Oxide Thin-Film Transistors Processed by Spray Pyrolysis. Journal of Display Technology, 2013, 9, 825-831.	1.2	6
137	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
138	A Voltage Controlled Oscillator Using IGZO Thin-Film Transistors. , 2018, , .		6
139	Structural, optical, and electronic properties of metal oxide nanostructures. , 2019, , 59-102.		6
140	Ta ₂ O ₅ /SiO ₂ Multicomponent Dielectrics for Amorphous Oxide TFTs. Electronic Materials, 2021, 2, 1-16.	1.9	6
141	A Study on the Electrical Properties of ZnO Based Transparent TFTs. Materials Science Forum, 2006, 514-516, 68-72.	0.3	5
142	Design of a robust general-purpose low-offset comparator based on IGZO thin-film transistors. , 2015, , .		5
143	Basic analog and digital circuits with a-IGZO TFTs. , 2016, , .		5
144	High gain operational amplifier and a comparator with a-IGZO TFTs. IET Circuits, Devices and Systems, 2020, 14, 1214-1219.	1.4	5

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145	Microwave-Assisted Synthesis of Zn ₂ SnO ₄ Nanostructures for Photodegradation of Rhodamine B under UV and Sunlight. <i>Nanomaterials</i> , 2022, 12, 2119.	4.1	5
146	Paper field effect transistor. <i>Proceedings of SPIE</i> , 2009, , .	0.8	4
147	A Comparitive Study of On-Chip Clock Generators Using a-IGZO TFTs for Flexible Electronic Systems. , 2018, , .		4
148	Low-Power Ethanol Sensor Read-Out Circuit using a-InGaZnO TFTs. , 2020, , .		4
149	On-chip power supply generation for self-contained electronics using oxide thin-film transistors. <i>International Journal of Circuit Theory and Applications</i> , 2021, 49, 2112-2121.	2.0	4
150	New strategies toward high-performance and low-temperature processing of solution-based metal oxide TFTs. , 2021, , 585-621.		4
151	N-Type Oxide Semiconductor Thin-Film Transistors. <i>Springer Series in Materials Science</i> , 2012, , 435-476.	0.6	4
152	Physical parameters based analytical I-V model of long and short channel a-IGZO TFTs. <i>Solid-State Electronics</i> , 2022, 192, 108273.	1.4	4
153	Impedance study of the electrical properties of poly-Si thin film transistors. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 1737-1740.	3.1	3
154	3 dimensional polymorphous silicon based metal-insulator-semiconductor position sensitive detectors. <i>Thin Solid Films</i> , 2007, 515, 7530-7533.	1.8	3
155	A Low-Power Rail-to-Rail Row/Column Selector Operating at 2V Using a-IGZO TFTs for Flexible Displays. , 2018, , .		3
156	Chromogenic applications. , 2019, , 103-147.		3
157	Mostly Passive $\hat{I}^n - \hat{I}^n$ ADC with a-IGZO TFTs for Flexible Electronics. , 2021, , .		3
158	Porous ZnO Nanostructures Synthesized by Microwave Hydrothermal Method for Energy Harvesting Applications. , 0, , .		3
159	Hydrothermal Synthesis of Zinc Tin Oxide Nanostructures for Photocatalysis, Energy Harvesting and Electronics. , 0, , .		3
160	Solution Combustion Synthesis of Hafnium-Doped Indium Oxide Thin Films for Transparent Conductors. <i>Nanomaterials</i> , 2022, 12, 2167.	4.1	3
161	Multipliers with transparent a-GIZO TFTs using a neural model. , 2012, , .		2
162	Transparent Current Mirrors Using a-GIZO TFTs: Simulation with RBF Models and Fabrication. , 2014, , .		2

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163	A High-resolution $\hat{\Gamma}$ -Modulator ADC with Oversampling and Noise-shaping for IoT. , 2018, , .		2
164	Bootstrapping Circuit with IGZO TFTs for On-Chip Power Supply Generation. , 2019, , .		2
165	High Speed Operational Amplifier using a-InGaZnO TFTs with Negative Capacitance. , 2020, , .		2
166	Poly-Si Thin Film Transistors: Effect of Metal Thickness on Silicon Crystallization. Materials Science Forum, 2006, 514-516, 28-32.	0.3	1
167	Electrical Performances of Low Temperature Annealed Hafnium Oxide Deposited at Room Temperature. Materials Science Forum, 2006, 514-516, 58-62.	0.3	1
168	New Amorphous Oxide Semiconductor for Thin Film Transistors (TFTs). Materials Science Forum, 2008, 587-588, 348-352.	0.3	1
169	Floating gate memory paper transistor. , 2010, , .		1
170	Multicomponent dielectrics for oxide TFT. Proceedings of SPIE, 2012, , .	0.8	1
171	Transistors: Solid State Electrochemical WO ₃ Transistors with High Current Modulation (Adv. Electron. Mater. 9/2016). Advanced Electronic Materials, 2016, 2, .	5.1	1
172	TCAD Simulation of Amorphous Indium-Gallium-Zinc Oxide Thin-Film Transistors. IFIP Advances in Information and Communication Technology, 2016, , 551-557.	0.7	1
173	A high-gain, high-speed parametric residue amplifier for SAR-assisted pipeline ADCs. , 2016, , .		1
174	Low-Power Switched Operational Amplifier Using a-InGaZnO TFTs. Communications in Computer and Information Science, 2019, , 370-379.	0.5	1
175	Oxide nanoparticle hybrid materials and applications. , 2019, , 235-281.		1
176	Oxide materials for energy applications. , 2019, , 199-234.		1
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