Rodrigo Martins

List of Publications by Year
in descending order

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654 papers	25,155 citations	7568 77 h-index	12597 132 g-index
670 all docs	670 docs citations	670 times ranked	18846 citing authors

#	Article	IF	Citations
1	Oxide Semiconductor Thinâ€Film Transistors: A Review of Recent Advances. Advanced Materials, 2012, 24, 2945-2986.	21.0	2,590
2	Fully Transparent ZnO Thin-Film Transistor Produced at Room Temperature. Advanced Materials, 2005, 17, 590-594.	21.0	787
3	Wide-bandgap high-mobility ZnO thin-film transistors produced at room temperature. Applied Physics Letters, 2004, 85, 2541-2543.	3.3	500
4	Effect of different dopant elements on the properties of ZnO thin films. Vacuum, 2002, 64, 281-285.	3.5	336
5	Recent advances in ZnO transparent thin film transistors. Thin Solid Films, 2005, 487, 205-211.	1.8	335
6	Influence of the deposition pressure on the properties of transparent and conductive ZnO:Ga thin-film produced by r.f. sputtering at room temperature. Thin Solid Films, 2003, 427, 401-405.	1.8	277
7	Transparent p-type SnOx thin film transistors produced by reactive rf magnetron sputtering followed by low temperature annealing. Applied Physics Letters, 2010, 97, .	3.3	264
8	High-Performance Flexible Hybrid Field-Effect Transistors Based on Cellulose Fiber Paper. IEEE Electron Device Letters, 2008, 29, 988-990.	3.9	245
9	Toward High-Performance Amorphous GIZO TFTs. Journal of the Electrochemical Society, 2009, 156, H161.	2.9	235
10	Complementary Metal Oxide Semiconductor Technology With and On Paper. Advanced Materials, 2011, 23, 4491-4496.	21.0	235
11	Laserâ€Induced Graphene Strain Sensors Produced by Ultraviolet Irradiation of Polyimide. Advanced Functional Materials, 2018, 28, 1805271.	14.9	228
12	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.	6.1	226
13	Nanocrystalline cellulose applied simultaneously as the gate dielectric and the substrate in flexible field effect transistors. Nanotechnology, 2014, 25, 094008.	2.6	218
14	Gate-bias stress in amorphous oxide semiconductors thin-film transistors. Applied Physics Letters, 2009, 95, .	3.3	213
15	High mobility indium free amorphous oxide thin film transistors. Applied Physics Letters, 2008, 92, .	3.3	210
16	Influence of the semiconductor thickness on the electrical properties of transparent TFTs based on indium zinc oxide. Journal of Non-Crystalline Solids, 2006, 352, 1749-1752.	3.1	196
17	A low cost, safe, disposable, rapid and self-sustainable paper-based platform for diagnostic testing: lab-on-paper. Nanotechnology, 2014, 25, 094006.	2.6	193
18	Role of order and disorder on the electronic performances of oxide semiconductor thin film transistors. Journal of Applied Physics, 2007, 101, 044505.	2.5	192

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19	Galliumâ€“Indiumâ€“Zinc-Oxide-Based Thin-Film Transistors: Influence of the Source/Drain Material. IEEE Transactions on Electron Devices, 2008, 55, 954-960.	3.0	185
20	Influence of the post-treatment on the properties of ZnO thin films. Thin Solid Films, 2001, 383, 277-280.	1.8	182
21	Zinc oxide as an ozone sensor. Journal of Applied Physics, 2004, 96, 1398-1408.	2.5	181
22	Amorphous IZO TTFTs with saturation mobilities exceeding 100 cm2/Vs. Physica Status Solidi - Rapid Research Letters, 2007, 1, R34-R36.	2.4	171
23	Fully Solution-Processed Low-Voltage Aqueous In₂O₃ Thin-Film Transistors Using an Ultrathin ZrO_x Dielectric. ACS Applied Materials & Interfaces, 2014, 6, 17364-17369.	8.0	166
24	Lowâ€Temperature, Nontoxic Waterâ€Induced Metalâ€Oxide Thin Films and Their Application in Thinâ€Film Transistors. Advanced Functional Materials, 2015, 25, 2564-2572.	14.9	161
25	Thin-film transistors based on p-type Cu2O thin films produced at room temperature. Applied Physics Letters, 2010, 96, .	3.3	160
26	TiO2/Cu2O all-oxide heterojunction solar cells produced by spray pyrolysis. Solar Energy Materials and Solar Cells, 2015, 132, 549-556.	6.2	155
27	Highly stable transparent and conducting gallium-doped zinc oxide thin films for photovoltaic applications. Solar Energy Materials and Solar Cells, 2008, 92, 1605-1610.	6.2	151
28	Zinc oxide, a multifunctional material: from material to device applications. Applied Physics A: Materials Science and Processing, 2009, 96, 197-205.	2.3	149
29	Waterâ€Induced Scandium Oxide Dielectric for Lowâ€Operating Voltage nâ€and pâ€Type Metalâ€Oxide Thinâ€Film Transistors. Advanced Functional Materials, 2015, 25, 7180-7188.	14.9	147
30	Multifunctional cellulose-paper for light harvesting and smart sensing applications. Journal of Materials Chemistry C, 2018, 6, 3143-3181.	5.5	147
31	Solution Combustion Synthesis: Lowâ€Temperature Processing for pâ€Type Cu:NiO Thin Films for Transparent Electronics. Advanced Materials, 2017, 29, 1701599.	21.0	145
32	WO₃ Nanoparticle-Based Conformable pH Sensor. ACS Applied Materials & Interfaces, 2014, 6, 12226-12234.	8.0	140
33	Influence of post-annealing temperature on the properties exhibited by ITO, IZO and GZO thin films. Thin Solid Films, 2007, 515, 8562-8566.	1.8	139
34	Molecularly-imprinted chloramphenicol sensor with laser-induced graphene electrodes. Biosensors and Bioelectronics, 2019, 124-125, 167-175.	10.1	135
35	Role of Ga2O3â€“In2O3â€“ZnO channel composition on the electrical performance of thin-film transistors. Materials Chemistry and Physics, 2011, 131, 512-518.	4.0	134
36	Gold on paperâ€“paper platform for Au-nanoprobe TB detection. Lab on A Chip, 2012, 12, 4802.	6.0	129

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37	Write-erase and read paper memory transistor. Applied Physics Letters, 2008, 93, .	3.3	127
38	High field-effect mobility zinc oxide thin film transistors produced at room temperature. Journal of Non-Crystalline Solids, 2004, 338-340, 806-809.	3.1	124
39	Recyclable, Flexible, Lowâ€Power Oxide Electronics. Advanced Functional Materials, 2013, 23, 2153-2161.	14.9	124
40	Hole mobility modulation of solution-processed nickel oxide thin-film transistor based on high-k dielectric. Applied Physics Letters, 2016, 108, .	3.3	122
41	Synthesis of Long ZnO Nanorods under Microwave Irradiation or Conventional Heating. Journal of Physical Chemistry C, 2014, 118, 14629-14639.	3.1	120
42	Performances presented by zinc oxide thin films deposited by r.f. magnetron sputtering. Vacuum, 2002, 64, 293-297.	3.5	117
43	Solution Combustion Synthesis: Towards a Sustainable Approach for Metal Oxides. Chemistry - A European Journal, 2020, 26, 9099-9125.	3.3	115
44	Laser-Induced Graphene from Paper for Mechanical Sensing. ACS Applied Materials & Interfaces, 2021, 13, 10210-10221.	8.0	115
45	Transport in high mobility amorphous wide band gap indium zinc oxide films. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, R95-R97.	1.8	113
46	Electrochromic behavior of NiO thin films deposited by e-beam evaporation at room temperature. Solar Energy Materials and Solar Cells, 2014, 120, 109-115.	6.2	111
47	A Review on Cu₂O and Cu^I-Based <I>p</I>-Type Semiconducting Transparent Oxide Materials: Promising Candidates for New Generation Oxide Based Electronics. Reviews in Advanced Sciences and Engineering, 2013, 2, 273-304.	0.6	107
48	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.	8.0	107
49	Effect of solvents on ZnO nanostructures synthesized by solvothermal method assisted by microwave radiation: a photocatalytic study. Journal of Materials Science, 2015, 50, 5777-5787.	3.7	105
50	Amorphous ITO thin films prepared by DC sputtering for electrochromic applications. Thin Solid Films, 2002, 420-421, 70-75.	1.8	103
51	High quality conductive gallium-doped zinc oxide films deposited at room temperature. Thin Solid Films, 2004, 451-452, 443-447.	1.8	103
52	Imaging the Anomalous Charge Distribution Inside CsPbBr₃ Perovskite Quantum Dots Sensitized Solar Cells. ACS Nano, 2017, 11, 10214-10221.	14.6	103
53	The Effect of Deposition Conditions and Annealing on the Performance of High-Mobility GIZO TFTs. Electrochemical and Solid-State Letters, 2008, 11, H248.	2.2	101
54	Thin Film Silicon Photovoltaic Cells on Paper for Flexible Indoor Applications. Advanced Functional Materials, 2015, 25, 3592-3598.	14.9	101

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55	Photonic-structured TiO2 for high-efficiency, flexible and stable Perovskite solar cells. Nano Energy, 2019, 59, 91-101.	16.0	100
56	Recent Progress in Solutionâ€Based Metal Oxide Resistive Switching Devices. Advanced Materials, 2021, 33, e2004328.	21.0	99
57	High-performance fully amorphous bilayer metal-oxide thin film transistors using ultra-thin solution-processed ZrOx dielectric. Applied Physics Letters, 2014, 105, 113509.	3.3	98
58	Growth of ZnO:Ga thin films at room temperature on polymeric substrates: thickness dependence. Thin Solid Films, 2003, 442, 121-126.	1.8	97
59	Influence of the layer thickness in plasmonic gold nanoparticles produced by thermal evaporation. Scientific Reports, 2013, 3, 1469.	3.3	97
60	Transparent aluminium zinc oxide thin films with enhanced thermoelectric properties. Journal of Materials Chemistry A, 2014, 2, 6649-6655.	10.3	97
61	Effect of annealing temperature on the properties of IZO films and IZO based transparent TFTs. Thin Solid Films, 2007, 515, 8450-8454.	1.8	95
62	New challenges on gallium-doped zinc oxide films prepared by r.f. magnetron sputtering. Thin Solid Films, 2003, 442, 102-106.	1.8	92
63	Electronics with and on paper. Physica Status Solidi - Rapid Research Letters, 2011, 5, 332-335.	2.4	91
64	Reusable Celluloseâ€Based Hydrogel Sticker Film Applied as Gate Dielectric in Paper Electrolyteâ€Gated Transistors. Advanced Functional Materials, 2017, 27, 1606755.	14.9	90
65	Effect of UV and visible light radiation on the electrical performances of transparent TFTs based on amorphous indium zinc oxide. Journal of Non-Crystalline Solids, 2006, 352, 1756-1760.	3.1	89
66	Study of annealed indium tin oxide films prepared by rf reactive magnetron sputtering. Vacuum, 1995, 46, 673-680.	3.5	87
67	Role of hydrogen plasma on electrical and optical properties of ZGO, ITO and IZO transparent and conductive coatings. Thin Solid Films, 2006, 511-512, 295-298.	1.8	87
68	Low-temperature, nontoxic water-induced high-k zirconium oxide dielectrics for low-voltage, high-performance oxide thin-film transistors. Journal of Materials Chemistry C, 2016, 4, 10715-10721.	5.5	87
69	Office paper decorated with silver nanostars - an alternative cost effective platform for trace analyte detection by SERS. Scientific Reports, 2017, 7, 2480.	3.3	86
70	Electron transport and optical characteristics in amorphous indium zinc oxide films. Journal of Non-Crystalline Solids, 2006, 352, 1471-1474.	3.1	83
71	Insight on the SU-8 resist as passivation layer for transparent Ga2O3â€“In2O3â€“ZnO thin-film transistors. Journal of Applied Physics, 2010, 108, .	2.5	83
72	Microwave Synthesized ZnO Nanorod Arrays for UV Sensors: A Seed Layer Annealing Temperature Study. Materials, 2016, 9, 299.	2.9	83

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73	Production and characterization of zinc oxide thin films for room temperature ozone sensing. Thin Solid Films, 2002, 418, 45-50.	1.8	82
74	High-mobility p-type NiO_x thin-film transistors processed at low temperatures with Al₂O₃ high-k dielectric. Journal of Materials Chemistry C, 2016, 4, 9438-9444.	5.5	82
75	High near-infrared transparent molybdenum-doped indium oxide thin films for nanocrystalline silicon solar cell applications. Solar Energy Materials and Solar Cells, 2009, 93, 92-97.	6.2	80
76	Smart textile lighting/display system with multifunctional fibre devices for large scale smart home and IoT applications. Nature Communications, 2022, 13, 814.	12.8	80
77	High mobility and low threshold voltage transparent thin film transistors based on amorphous indium zinc oxide semiconductors. Solid-State Electronics, 2008, 52, 443-448.	1.4	79
78	Efficient coverage of ZnO nanoparticles on cotton fibres for antibacterial finishing using a rapid and low cost in situ synthesis. New Journal of Chemistry, 2018, 42, 1052-1060.	2.8	78
79	A Sustainable Approach to Flexible Electronics with Zincâ€Tin Oxide Thinâ€Film Transistors. Advanced Electronic Materials, 2018, 4, 1800032.	5.1	76
80	Effect of Mg doping on Cu 2 O thin films and their behavior on the TiO 2 /Cu 2 O heterojunction solar cells. Solar Energy Materials and Solar Cells, 2016, 147, 27-36.	6.2	73
81	Thermoelectric properties of V2O5 thin films deposited by thermal evaporation. Applied Surface Science, 2013, 282, 590-594.	6.1	71
82	Synthesis of WO 3 nanoparticles for biosensing applications. Sensors and Actuators B: Chemical, 2016, 223, 186-194.	7.8	71
83	Performance and Stability of Low Temperature Transparent Thin-Film Transistors Using Amorphous Multicomponent Dielectrics. Journal of the Electrochemical Society, 2009, 156, H824.	2.9	70
84	Zinc concentration dependence study of solution processed amorphous indium gallium zinc oxide thin film transistors using high-k dielectric. Applied Physics Letters, 2010, 97, .	3.3	70
85	In situ one-step synthesis of p-type copper oxide for low-temperature, solution-processed thin-film transistors. Journal of Materials Chemistry C, 2017, 5, 2524-2530.	5.5	70
86	Large-area 1D thin-film position-sensitive detector with high detection resolution. Sensors and Actuators A: Physical, 1995, 51, 135-142.	4.1	68
87	Investigations on high visible to near infrared transparent and high mobility Mo doped In2O3 thin films prepared by spray pyrolysis technique. Solar Energy Materials and Solar Cells, 2010, 94, 406-412.	6.2	68
88	Papertronics: Multigate paper transistor for multifunction applications. Applied Materials Today, 2018, 12, 402-414.	4.3	68
89	Transparent, conductive ZnO:Al thin film deposited on polymer substrates by RF magnetron sputtering. Surface and Coatings Technology, 2002, 151-152, 247-251.	4.8	67
90	Electrical, structural and optical characterization of copper oxide thin films as a function of post annealing temperature. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 2143-2148.	1.8	67

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91	P-type ZnO thin film deposited by spray pyrolysis technique: The effect of solution concentration. Thin Solid Films, 2009, 518, 1149-1152.	1.8	67
92	Zinc oxide thin films: Characterization and potential applications. Thin Solid Films, 2010, 518, 4515-4519.	1.8	66
93	Redox Chloride Elimination Reaction: Facile Solution Route for Indiumâ€Free, Lowâ€Voltage, and Highâ€Performance Transistors. Advanced Electronic Materials, 2017, 3, 1600513.	5.1	66
94	Silicon thin film solar cells on commercial tiles. Energy and Environmental Science, 2011, 4, 4620.	30.8	65
95	Eco-friendly water-induced aluminum oxide dielectrics and their application in a hybrid metal oxide/polymer TFT. RSC Advances, 2015, 5, 86606-86613.	3.6	65
96	Ultra-Fast Microwave Synthesis of ZnO Nanorods on Cellulose Substrates for UV Sensor Applications. Materials, 2017, 10, 1308.	2.9	65
97	Lateral photoeffect in large area oneâ€dimensional thinâ€film positionâ€sensitive detectors based in aâ€Si:H Pâ€iâ€N devices. Review of Scientific Instruments, 1995, 66, 2927-2934.	1.3	64
98	Mapping the Electrical Properties of ZnOâ€Based Transparent Conductive Oxides Grown at Room Temperature and Improved by Controlled Postdeposition Annealing. Advanced Electronic Materials, 2016, 2, 1500287.	5.1	64
99	Role of annealing environment on the performances of large area ITO films produced by rf magnetron sputtering. Thin Solid Films, 2005, 487, 271-276.	1.8	63
100	Piezoelectricity Enhancement of Nanogenerators Based on PDMS and ZnSnO₃ Nanowires through Microstructuration. ACS Applied Materials & Interfaces, 2020, 12, 18421-18430.	8.0	63
101	Thin film position sensitive detector based on amorphous silicon pâ€“iâ€“n diode. Review of Scientific Instruments, 1994, 65, 3784-3786.	1.3	62
102	Microstructure control of dual-phase inkjet-printed a-WO3/TiO2/WOX films for high-performance electrochromic applications. Journal of Materials Chemistry, 2012, 22, 13268.	6.7	62
103	Nontoxic, Ecoâ€friendly Fully Waterâ€Induced Ternary Zrâ€“Gdâ€“O Dielectric for Highâ€Performance Transistors and Unipolar Inverters. Advanced Electronic Materials, 2018, 4, 1800100.	5.1	62
104	UV-Mediated Photochemical Treatment for Low-Temperature Oxide-Based Thin-Film Transistors. ACS Applied Materials & Interfaces, 2016, 8, 31100-31108.	8.0	61
105	Influence of the annealing conditions on the properties of ZnO thin films. Solid State Sciences, 2001, 3, 1125-1128.	0.7	60
106	Broadband photocurrent enhancement in a-Si:H solar cells with plasmonic back reflectors. Optics Express, 2014, 22, A1059.	3.4	60
107	Design of optimized wave-optical spheroidal nanostructures for photonic-enhanced solar cells. Nano Energy, 2016, 26, 286-296.	16.0	60
108	Inkjet printed and â€œdoctor bladeâ€•TiO2 photodetectors for DNA biosensors. Biosensors and Bioelectronics, 2010, 25, 1229-1234.	10.1	59

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109	Green economy and waste management: An inevitable plan for materials science. Progress in Natural Science: Materials International, 2022, 32, 1-9.	4.4	59
110	High k dielectrics for low temperature electronics. Thin Solid Films, 2008, 516, 1544-1548.	1.8	58
111	The influence of fibril composition and dimension on the performance of paper gated oxide transistors. Nanotechnology, 2014, 25, 094007.	2.6	58
112	Improving positive and negative bias illumination stress stability in parylene passivated IGZO transistors. Applied Physics Letters, 2016, 109, .	3.3	58
113	Photocatalytic TiO2 Nanorod Spheres and Arrays Compatible with Flexible Applications. Catalysts, 2017, 7, 60.	3.5	58
114	Aluminum doped zinc oxide sputtering targets obtained from nanostructured powders: Processing and application. Journal of the European Ceramic Society, 2012, 32, 4381-4391.	5.7	57
115	Label-Free Nanosensing Platform for Breast Cancer Exosome Profiling. ACS Sensors, 2019, 4, 2073-2083.	7.8	57
116	Printed, Highly Stable Metal Oxide Thinâ€Film Transistors with Ultraâ€Thin Highâ€ Oxide Dielectric. Advanced Electronic Materials, 2020, 6, 1901071.	5.1	57
117	New developments in gallium doped zinc oxide deposited on polymeric substrates by RF magnetron sputtering. Surface and Coatings Technology, 2004, 180-181, 20-25.	4.8	56
118	Piezoresistive Eâ€Skin Sensors Produced with Laser Engraved Molds. Advanced Electronic Materials, 2018, 4, 1800182.	5.1	56
119	Paper Microfluidics and Tailored Gold Nanoparticles for Nonenzymatic, Colorimetric Multiplex Biomarker Detection. ACS Applied Materials & Interfaces, 2021, 13, 3576-3590.	8.0	56
120	Cellulose: A Contribution for the Zero eâ€Waste Challenge. Advanced Materials Technologies, 2021, 6, .	5.8	56
121	Highly Sensitive ZnO Ozone Detectors at Room Temperature. Japanese Journal of Applied Physics, 2003, 42, L435-L437.	1.5	55
122	Influence of oxygen/argon pressure ratio on the morphology, optical and electrical properties of ITO thin films deposited at room temperature. Vacuum, 2008, 82, 1507-1511.	3.5	55
123	Structure and Morphologic Influence of WO₃ Nanoparticles on the Electrochromic Performance of Dualâ€Phase aâ€WO₃/WO₃ Inkjet Printed Films. Advanced Electronic Materials, 2015, 1, 1400002.	5.1	55
124	Highly efficient nanoplasmonic SERS on cardboard packaging substrates. Nanotechnology, 2014, 25, 415202.	2.6	54
125	Nanostructured silicon and its application to solar cells, position sensors and thin film transistors. Philosophical Magazine, 2009, 89, 2699-2721.	1.6	53
126	Solution-processed high-k magnesium oxide dielectrics for low-voltage oxide thin-film transistors. Applied Physics Letters, 2016, 109, .	3.3	53

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127	Boosting Electrical Performance of High-Îº Nanomultilayer Dielectrics and Electronic Devices by Combining Solution Combustion Synthesis and UV Irradiation. ACS Applied Materials & Interfaces, 2017, 9, 40428-40437.	8.0	53
128	Laserâ€Induced Graphene Piezoresistive Sensors Synthesized Directly on Cork Insoles for Gait Analysis. Advanced Materials Technologies, 2020, 5, 2000630.	5.8	53
129	Simulation of hydrogenated amorphous and microcrystalline silicon optoelectronic devices. Mathematics and Computers in Simulation, 1999, 49, 381-401.	4.4	52
130	High Mobility a-IGO Films Produced at Room Temperature and Their Application in TFTs. Electrochemical and Solid-State Letters, 2010, 13, H20.	2.2	52
131	Low-temperature processed Schottky-gated field-effect transistors based on amorphous gallium-indium-zinc-oxide thin films. Applied Physics Letters, 2010, 97, .	3.3	52
132	Where science fiction meets reality? With oxide semiconductors!. Physica Status Solidi - Rapid Research Letters, 2011, 5, 336-339.	2.4	52
133	Syngas production by electrochemical CO 2 reduction in an ionic liquid based-electrolyte. Journal of CO2 Utilization, 2017, 18, 62-72.	6.8	52
134	Influence of the oxygen/argon ratio on the properties of sputtered hafnium oxide. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 118, 210-213.	3.5	51
135	Broadband light trapping in thin film solar cells with self-organized plasmonic nano-colloids. Nanotechnology, 2015, 26, 135202.	2.6	51
136	Light trapping in solar cells: simple design rules to maximize absorption. Optica, 2020, 7, 1377.	9.3	51
137	Polycrystalline intrinsic zinc oxide to be used in transparent electronic devices. Thin Solid Films, 2005, 487, 212-215.	1.8	50
138	Passivation of Interfaces in Thin Film Solar Cells: Understanding the Effects of a Nanostructured Rear Point Contact Layer. Advanced Materials Interfaces, 2018, 5, 1701101.	3.7	50
139	Influence of the deposition conditions on the gas sensitivity of zinc oxide thin films deposited by spray pyrolysis. Solid State Sciences, 2001, 3, 1129-1131.	0.7	49
140	Fully solution-induced high performance indium oxide thin film transistors with ZrO_x high-k gate dielectrics. RSC Advances, 2018, 8, 16788-16799.	3.6	49
141	Fieldâ€Effect Transistors on Photonic Cellulose Nanocrystal Solid Electrolyte for Circular Polarized Light Sensing. Advanced Functional Materials, 2019, 29, 1805279.	14.9	48
142	Laserâ€Induced Graphene on Paper toward Efficient Fabrication of Flexible, Planar Electrodes for Electrochemical Sensing. Advanced Materials Interfaces, 2021, 8, 2101502.	3.7	48
143	A water-induced high-k yttrium oxide dielectric for fully-solution-processed oxide thin-film transistors. Current Applied Physics, 2015, 15, S75-S81.	2.4	47
144	Influence of the Substrate on the Morphology of Self-Assembled Silver Nanoparticles by Rapid Thermal Annealing. Journal of Physical Chemistry C, 2016, 120, 18235-18242.	3.1	47

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145	Digital Microfluidics for Nucleic Acid Amplification. Sensors, 2017, 17, 1495.	3.8	47
146	Self-Rechargeable Paper Thin-Film Batteries: Performance and Applications. Journal of Display Technology, 2010, 6, 332-335.	1.2	46
147	Towards environmental friendly solution-based ZTO/AlO_x TFTs. Semiconductor Science and Technology, 2015, 30, 024007.	2.0	46
148	Direct growth of plasmonic nanorod forests on paper substrates for low-cost flexible 3D SERS platforms. Flexible and Printed Electronics, 2017, 2, 014001.	2.7	46
149	Tailoring IGZO Composition for Enhanced Fully Solution-Based Thin Film Transistors. Nanomaterials, 2019, 9, 1273.	4.1	46
150	Hydrogenated silicon carbon nitride films obtained by HWCVD, PA-HWCVD and PECVD techniques. Journal of Non-Crystalline Solids, 2006, 352, 1361-1366.	3.1	45
151	Eco-friendly, solution-processed In-W-O thin films and their applications in low-voltage, high-performance transistors. Journal of Materials Chemistry C, 2016, 4, 4478-4484.	5.5	45
152	Solutionâ€Processed Alkaline Lithium Oxide Dielectrics for Applications in nâ€•and pâ€Type Thinâ€Film Transistors. Advanced Electronic Materials, 2016, 2, 1600140.	5.1	45
153	Biowaste-derived carbon black applied to polyaniline-based high-performance supercapacitor microelectrodes: Sustainable materials for renewable energy applications. Electrochimica Acta, 2019, 316, 202-218.	5.2	45
154	Characterization of aluminium doped zinc oxide thin films deposited on polymeric substrates. Vacuum, 2002, 64, 233-236.	3.5	44
155	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
156	Crystallization of amorphous indium zinc oxide thin films produced by radio-frequency magnetron sputtering. Thin Solid Films, 2008, 516, 1374-1376.	1.8	44
157	Selective floating gate nonâ€volatile paper memory transistor. Physica Status Solidi - Rapid Research Letters, 2009, 3, 308-310.	2.4	43
158	Lowâ€temperature sputtered mixtures of highâ€Î° and high bandgap dielectrics for GIZO TFTs. Journal of the Society for Information Display, 2010, 18, 762-772.	2.1	43
159	Laser-Induced Graphene-Based Platforms for Dual Biorecognition of Molecules. ACS Applied Nano Materials, 2020, 3, 2795-2803.	5.0	43
160	Metal Oxide-Based Photocatalytic Paper: A Green Alternative for Environmental Remediation. Catalysts, 2021, 11, 504.	3.5	43
161	Amorphous/nanocrystalline silicon biosensor for the specific identification of unamplified nucleic acid sequences using gold nanoparticle probes. Applied Physics Letters, 2007, 90, 023903.	3.3	42
162	Bio-microfluidic platform for gold nanoprobe based DNA detectionâ€”application to Mycobacterium tuberculosis. Biosensors and Bioelectronics, 2013, 48, 87-93.	10.1	42

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163	Efficient Field Emission from Vertically Aligned Cu₂O_{1â€Î´}(111) Nanostructure Influenced by Oxygen Vacancy. Advanced Functional Materials, 2015, 25, 947-956.	14.9	42
164	Toward Stable Solution-Processed High-Mobility p-Type Thin Film Transistors Based on Halide Perovskites. ACS Nano, 2020, 14, 14790-14797.	14.6	42
165	Hydrogenated p-type nanocrystalline silicon in amorphous silicon solar cells. Journal of Non-Crystalline Solids, 2006, 352, 1900-1903.	3.1	41
166	Tailoring nanoscale properties of tungsten oxide for inkjet printed electrochromic devices. Nanoscale, 2015, 7, 1696-1708.	5.6	41
167	Radiationâ€Tolerant Flexible Largeâ€Area Electronics Based on Oxide Semiconductors. Advanced Electronic Materials, 2016, 2, 1500489.	5.1	41
168	Colloidal-lithographed TiO₂ photonic nanostructures for solar cell light trapping. Journal of Materials Chemistry C, 2017, 5, 6852-6861.	5.5	41
169	Optimum Luminescent Down-Shifting Properties for High Efficiency and Stable Perovskite Solar Cells. ACS Applied Energy Materials, 2019, 2, 2930-2938.	5.1	41
170	High UV and Sunlight Photocatalytic Performance of Porous ZnO Nanostructures Synthesized by a Facile and Fast Microwave Hydrothermal Method. Materials, 2021, 14, 2385.	2.9	41
171	3D ZnO/Ag Surface-Enhanced Raman Scattering on Disposable and Flexible Cardboard Platforms. Materials, 2017, 10, 1351.	2.9	40
172	Paper-Based Biosensors for COVID-19: A Review of Innovative Tools for Controlling the Pandemic. ACS Omega, 2021, 6, 29268-29290.	3.5	40
173	The characterisation of aerosol assisted CVD conducting, photocatalytic indium doped zinc oxide films. Journal of Photochemistry and Photobiology A: Chemistry, 2011, 219, 10-15.	3.9	39
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