

I-Chun Cheng

List of Publications by Year in descending order

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164
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2876
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#	ARTICLE	IF	CITATIONS
1	Dielectric barrier discharge jet processed TiO ₂ nanoparticle layer for flexible perovskite solar cells. <i>Journal Physics D: Applied Physics</i> , 2022, 55, 034003.	1.3	8
2	Mobility Enhancement in P-Type SnO Thin-Film Transistors via Ni Incorporation by Co-Sputtering. <i>IEEE Electron Device Letters</i> , 2022, 43, 228-231.	2.2	5
3	Low-Pressure Plasma-Processed Ruthenium/Nickel Foam Electrocatalysts for Hydrogen Evolution Reaction. <i>Materials</i> , 2022, 15, 2603.	1.3	4
4	Facile method to convert petal effect surface to lotus effect surface for superhydrophobic polydimethylsiloxane. <i>Surfaces and Interfaces</i> , 2022, 30, 101901.	1.5	9
5	Improved efficiency and air stability of two-dimensional p-i-n inverted perovskite solar cells by Cs doping. <i>RSC Advances</i> , 2021, 11, 20200-20206.	1.7	4
6	Feasibility Study of Dielectric Barrier Discharge Jet-Patterned Perfluorodecyltrichlorosilane-Coated Paper for Biochemical Diagnosis. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 037005.	0.9	4
7	Flexible Complementary Oxide Thin-Film Transistor-Based Inverter With High Gain. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 1070-1074.	1.6	17
8	Electropolymerized Poly(3,4-ethylenedioxythiophene)/Screen-Printed Reduced Graphene Oxide-Chitosan Bilayer Electrodes for Flexible Supercapacitors. <i>ACS Omega</i> , 2021, 6, 16455-16464.	1.6	14
9	Dielectric Barrier Discharge Plasma Jet (DBDjet) Processed Reduced Graphene Oxide/Polypyrrole/Chitosan Nanocomposite Supercapacitors. <i>Polymers</i> , 2021, 13, 3585.	2.0	16
10	The Influence of Helium Dielectric Barrier Discharge Jet (DBDjet) Plasma Treatment on Bathocuproine (BCP) in p-i-n-Structure Perovskite Solar Cells. <i>Polymers</i> , 2021, 13, 4020.	2.0	1
11	Silver mirror reaction metallized chromatography paper for supercapacitor application. <i>Flexible and Printed Electronics</i> , 2021, 6, 045010.	1.5	3
12	East Asian Calligraphy Black Ink-Coated Paper as Flexible Conducting Electrode for Supercapacitor. <i>ECS Journal of Solid State Science and Technology</i> , 2021, 10, 123013.	0.9	1
13	Ar dielectric barrier discharge jet (DBDjet) plasma treatment of reduced graphene oxide (rGO)-polyaniline (PANI)-chitosan (CS) nanocomposite on carbon cloth for supercapacitor application. <i>Energy, Ecology and Environment</i> , 2020, 5, 134-140.	1.9	5
14	Electrochemical and Microstructural Investigations of PtFe Nanocompounds Synthesized by Atmospheric-Pressure Plasma Jet. <i>Journal of the Electrochemical Society</i> , 2020, 167, 056501.	1.3	2
15	Flexible reduced graphene oxide supercapacitors processed using atmospheric-pressure plasma jet under various temperatures adjusted by flow rate and jet-substrate distance. <i>Materials Research Express</i> , 2020, 7, 015602.	0.8	5
16	Concentration effect on properties of Pt-NiOx nanocompounds converted from mixed chloroplatinic acid and nickel acetate precursor films using an atmospheric-pressure plasma jet. <i>Journal of Applied Physics</i> , 2020, 128, 043302.	1.1	2
17	Low Temperature ($\leq 40\text{ }^\circ\text{C}$) Atmospheric-Pressure Dielectric-Barrier-Discharge-jet (DBDjet) Plasma Treatment on Jet-Sprayed Silver Nanowires (AgNWs) Electrodes for Fully Solution-Processed n-i-p Structure Perovskite Solar Cells. <i>ECS Journal of Solid State Science and Technology</i> , 2020, 9, 055016.	0.9	6
18	Low-Temperature ($\leq 40\text{ }^\circ\text{C}$) Atmospheric-Pressure Dielectric-Barrier-Discharge-Jet Treatment on Nickel Oxide for p-i-n Structure Perovskite Solar Cells. <i>ACS Omega</i> , 2020, 5, 6082-6089.	1.6	17

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19	Influence of mechanical bending strain on bias-stress stability of flexible top-gate p-type SnO TFTs. , 2020, , .		2
20	Atmospheric-pressure surface-diffusion dielectric-barrier discharge (SDDBD) plasma surface modification of PEDOT:PSS. Synthetic Metals, 2019, 256, 116114.	2.1	7
21	Conversion of dense and continuous nickel oxide compound thin films using nitrogen DC-pulse atmospheric-pressure plasma jet. Ceramics International, 2019, 45, 22078-22084.	2.3	6
22	Investigation of ultrashort ($\le 1\text{Å}$) calcination processes for conversion of Pt-SnOx from mixture of chloroplatinic acid and tin(II) chloride. SN Applied Sciences, 2019, 1, 1.	1.5	0
23	Effect of Mechanical Strain on Electrical Performance of Flexible P-Type SnO Thin-Film Transistors. IEEE Transactions on Electron Devices, 2019, 66, 5183-5186.	1.6	10
24	In-situ atmospheric-pressure dielectric barrier discharge plasma treated CH ₃ NH ₃ PbI ₃ for perovskite solar cells in regular architecture. Applied Surface Science, 2019, 473, 468-475.	3.1	19
25	Feasibility study of atmospheric-pressure dielectric barrier discharge treatment on CH ₃ NH ₃ PbI ₃ films for inverted planar perovskite solar cells. Electrochimica Acta, 2019, 293, 1-7.	2.6	20
26	Atmospheric-pressure-plasma-jet processed carbon nanotube (CNT)-reduced graphene oxide (rGO) nanocomposites for gel-electrolyte supercapacitors. RSC Advances, 2018, 8, 2851-2857.	1.7	41
27	Improved performance of polyaniline/reduced-graphene-oxide supercapacitor using atmospheric-pressure-plasma-jet surface treatment of carbon cloth. Electrochimica Acta, 2018, 260, 391-399.	2.6	58
28	Atmospheric-pressure plasma jet processed Pt/ZnO composites and its application as counter-electrodes for dye-sensitized solar cells. Applied Surface Science, 2018, 436, 690-696.	3.1	24
29	Atmospheric Pressure Plasma Jet-Assisted Synthesis of Zeolite-Based Low- <i>k</i> Thin Films. ACS Applied Materials & Interfaces, 2018, 10, 900-908.	4.0	16
30	DC-pulse atmospheric-pressure plasma jet and dielectric barrier discharge surface treatments on fluorine-doped tin oxide for perovskite solar cell application. Journal Physics D: Applied Physics, 2018, 51, 025502.	1.3	10
31	Time Evolution Characterization of Atmospheric-Pressure Plasma Jet (APPJ)-Synthesized Pt-SnOx Catalysts. Metals, 2018, 8, 690.	1.0	6
32	Nitrogen DC-pulse atmospheric-pressure-plasma jet (APPJ)-processed reduced graphene oxide (rGO)-carbon black (CB) nanocomposite electrodes for supercapacitor applications. Diamond and Related Materials, 2018, 88, 23-31.	1.8	24
33	Scan-Mode Atmospheric-Pressure Plasma Jet Processed Reduced Graphene Oxides for Quasi-Solid-State Gel-Electrolyte Supercapacitors. Coatings, 2018, 8, 52.	1.2	20
34	Flexible reduced graphene oxide supercapacitor fabricated using a nitrogen dc-pulse atmospheric-pressure plasma jet. Materials Research Express, 2017, 4, 025504.	0.8	22
35	40° Moth-Eye Anti-Reflection Surface for Sunlight Readable Flexible Displays. Digest of Technical Papers SID International Symposium, 2017, 48, 574-577.	0.1	1
36	Broadband antireflection film with moth-eye-like structure for flexible display applications. Optica, 2017, 4, 678.	4.8	122

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37	A Comparison Study of Furnace and Atmospheric-Pressure-Plasma Jet Calcined Pt-Decorated Reduced Graphene Oxides for Dye-Sensitized Solar Cell Application. Journal of the Electrochemical Society, 2017, 164, H931-H935.	1.3	9
38	Dual light-activated microfluidic pumps based on an optopiezoelectric composite. Journal of Micromechanics and Microengineering, 2017, 27, 125003.	1.5	4
39	Surfactant-mediated self-assembly of nanocrystals to form hierarchically structured zeolite thin films with controlled crystal orientation. RSC Advances, 2017, 7, 49048-49055.	1.7	6
40	Application of atmospheric-pressure plasma jet processed carbon nanotubes to liquid and quasi-solid-state gel electrolyte supercapacitors. Applied Surface Science, 2017, 425, 321-328.	3.1	34
41	Atmospheric pressure plasma jet processed reduced graphene oxides for supercapacitor application. Journal of Alloys and Compounds, 2017, 692, 558-562.	2.8	35
42	Flexible and Printed Electronics. , 2017, , 813-854.		2
43	Atmospheric-Pressure Plasma Jet Processed Pt-Decorated Reduced Graphene Oxides for Counter-Electrodes of Dye-Sensitized Solar Cells. Coatings, 2016, 6, 44.	1.2	25
44	A Photoactivated Gas Detector for Toluene Sensing at Room Temperature Based on New Coral-Like ZnO Nanostructure Arrays. Sensors, 2016, 16, 1820.	2.1	9
45	Rapid atmospheric-pressure-plasma processed nanomaterials for electrochemical energy harvesting and storage devices. , 2016, , .		0
46	Atmospheric-pressure-plasma-jet sintered nanoporous AlN/CNT composites. Applied Surface Science, 2016, 377, 75-80.	3.1	6
47	Enhancement of gate-bias and current stress stability of P-type SnO thin-film transistors with SiN _x /HfO ₂ passivation layers. , 2016, , .		0
48	Solution-processed ultra-low-k thin films comprising single-walled aluminosilicate nanotubes. Nanoscale, 2016, 8, 17427-17432.	2.8	11
49	Mobility Enhancement in RF-Sputtered MgZnO/ZnO Heterostructure Thin-Film Transistors. IEEE Transactions on Electron Devices, 2016, 63, 1545-1549.	1.6	23
50	Atmospheric pressure plasma jet processed nanoporous Fe ₂ O ₃ /CNT composites for supercapacitor application. Journal of Alloys and Compounds, 2016, 676, 469-473.	2.8	48
51	Flexible Complementary Oxide-Semiconductor-Based Circuits Employing n-Channel ZnO and p-Channel SnO Thin-Film Transistors. IEEE Electron Device Letters, 2016, 37, 46-49.	2.2	61
52	Ultrafast synthesis of carbon-nanotube counter electrodes for dye-sensitized solar cells using an atmospheric-pressure plasma jet. Carbon, 2016, 98, 34-40.	5.4	59
53	Microstructural, electrical, and optical properties of sol-gel derived HfMgZnO thin films. Materials Research Express, 2015, 2, 096402.	0.8	1
54	Rapid Atmospheric-Pressure-Plasma-Jet Processed Porous Materials for Energy Harvesting and Storage Devices. Coatings, 2015, 5, 26-38.	1.2	31

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55	Ultrafast synthesis of continuous Au thin films from chloroauric acid solution using an atmospheric pressure plasma jet. RSC Advances, 2015, 5, 99654-99657.	1.7	18
56	UV photocurrent responses of ZnO and MgZnO/ZnO processed by atmospheric pressure plasma jets. Journal of Alloys and Compounds, 2015, 628, 68-74.	2.8	26
57	Ultrafast Atmospheric-Pressure-Plasma-Jet Sintering of Nanoporous TiO ₂ -SnO ₂ Composites with Features Defined by Screen-Printing. ECS Journal of Solid State Science and Technology, 2015, 4, P3020-P3025.	0.9	8
58	Atmospheric-pressure-plasma-jet sintered dual-scale porous TiO ₂ using an economically favorable NaCl solution. Journal of Power Sources, 2015, 281, 252-257.	4.0	13
59	Oxidation of sputtered metallic Sn thin films using N ₂ atmospheric pressure plasma jets. Materials Research Express, 2015, 2, 016504.	0.8	2
60	HfZnO/ZnO Heterostructures Fabricated Using Low-Cost Large-Area Compatible Sputtering Processes. Materials Research Society Symposia Proceedings, 2015, 1731, 18.	0.1	0
61	Optoelectronic properties of infrared rapid-thermal-annealed SnOx thin films. Ceramics International, 2015, 41, 13502-13508.	2.3	8
62	Deposition of ZnO Thin Films by an Atmospheric Pressure Plasma Jet-Assisted Process: The Selection of Precursors. IEEE Transactions on Plasma Science, 2015, 43, 670-674.	0.6	6
63	Atmospheric-pressure-plasma-jet processed nanoporous TiO ₂ photoanodes and Pt counter-electrodes for dye-sensitized solar cells. RSC Advances, 2015, 5, 45662-45667.	1.7	21
64	Nitrogen Atmospheric-Pressure-Plasma-Jet Induced Oxidation of SnOx Thin Films. Plasma Chemistry and Plasma Processing, 2015, 35, 979-991.	1.1	5
65	Influence of Ca/Al Ratio on Properties of Amorphous/Nanocrystalline Cu-Al-Ca-O Thin Films. Journal of the American Ceramic Society, 2015, 98, 125-129.	1.9	13
66	Influence of rapid-thermal-annealing temperature on properties of rf-sputtered SnOx thin films. Applied Surface Science, 2015, 327, 358-363.	3.1	27
67	Plasma-etched nanoporous TiO ₂ using Ag nanoparticle masks: application for photoanodes of dye-sensitized solar cells. Materials Research Express, 2014, 1, 025505.	0.8	5
68	A Flexible TFT Circuit Yield Optimizer Considering Process Variation, Aging, and Bending Effects. Journal of Display Technology, 2014, 10, 1055-1063.	1.3	3
69	Complementary Oxide-Semiconductor-Based Circuits With n-Channel ZnO and p-Channel SnO Thin-Film Transistors. IEEE Electron Device Letters, 2014, 35, 1263-1265.	2.2	59
70	Periodic anti-ring back reflectors for hydrogenated amorphous silicon thin-film solar cells. Optics Express, 2014, 22, A1128.	1.7	9
71	28.3: Flexible Substrate with Low Reflection, Low Haze, Self-cleaning, and High Hardness by Nanostructured Hard Coating and Surface Treatment. Digest of Technical Papers SID International Symposium, 2014, 45, 371-373.	0.1	2
72	Flexible TFT Circuit Analyzer Considering Process Variation, Aging, and Bending Effects. Journal of Display Technology, 2014, 10, 19-27.	1.3	4

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73	Back Cover: Plasma Process. Polym. 1â•214. Plasma Processes and Polymers, 2014, 11, 100-100.	1.6	0
74	Efficiency enhancement of thin-film a-Si:H solar cell with periodic anti-ring back reflector. , 2014, , .		0
75	Electromechanical properties of MgZnO/ZnO heterostructures on flexible polyimide and stainless steel substrates under flexing. Journal Physics D: Applied Physics, 2014, 47, 255102.	1.3	12
76	Characterization of Hf/Mg co-doped ZnO thin films after thermal treatments. Thin Solid Films, 2014, 570, 457-463.	0.8	2
77	Gate-Bias Stress Stability of P-Type SnO Thin-Film Transistors Fabricated by RF-Sputtering. IEEE Electron Device Letters, 2014, 35, 90-92.	2.2	63
78	Solâ€gel derived amorphous/nanocrystalline MgZnO thin films annealed by atmospheric pressure plasma jets. Ceramics International, 2014, 40, 2707-2715.	2.3	35
79	Deposition of transparent and conductive ZnO films by an atmospheric pressure plasma-jet-assisted process. Thin Solid Films, 2014, 570, 423-428.	0.8	23
80	Effect of Al/Cu ratios on the optical, electrical, and electrochemical properties of Cuâ€Alâ€Caâ€O thin films. Journal of Alloys and Compounds, 2014, 609, 111-115.	2.8	9
81	O₂/HMDSO-Plasma-Deposited Organic-Inorganic Hybrid Film for Gate Dielectric of MgZnO Thin-Film Transistor. Plasma Processes and Polymers, 2014, 11, 89-95.	1.6	19
82	Rapid Atmospheric Pressure Plasma Jet Processed Reduced Graphene Oxide Counter Electrodes for Dye-Sensitized Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 15105-15112.	4.0	71
83	Atmospheric-Pressure-Plasma-Jet Particulate TiO2 Scattering Layer Deposition Processes for Dye-Sensitized Solar Cells. ECS Journal of Solid State Science and Technology, 2014, 3, Q177-Q181.	0.9	18
84	Dynamically programmable surface micro-wrinkles on PDMS-SMA composite. Smart Materials and Structures, 2014, 23, 115007.	1.8	7
85	Oxygen-deficient indium tin oxide thin films annealed by atmospheric pressure plasma jets with/without air-quenching. Applied Surface Science, 2014, 292, 213-218.	3.1	35
86	Influence of annealing temperature on properties of room-temperature rf-sputtered CuAlOx:Ca thin films. Thin Solid Films, 2014, 550, 591-594.	0.8	12
87	Dye-sensitized solar cells with nanoporous TiO2 photoanodes sintered by N2 and air atmospheric pressure plasma jets with/without air-quenching. Journal of Power Sources, 2014, 251, 215-221.	4.0	50
88	Flexible Transparent ZnO:Al/ZnO/CuAlO x :Ca Heterojunction Diodes on Polyethylene Terephthalate Substrates. Journal of Electronic Materials, 2013, 42, 1242-1245.	1.0	24
89	Preparation of nanoporous TiO2 films for DSSC application by a rapid atmospheric pressure plasma jet sintering process. Journal of Power Sources, 2013, 234, 16-22.	4.0	71
90	Effects of drain-bias and ambient on hump formation in the transfer curves of positively gate-biased MgZnO thin film transistors. Thin Solid Films, 2013, 529, 360-363.	0.8	16

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91	KrF excimer laser irradiated nanoporous TiO ₂ layers for dye-sensitized solar cells: Influence of laser power density. <i>Ceramics International</i> , 2013, 39, 6183-6188.	2.3	12
92	Single-layer organic-inorganic-hybrid thin-film encapsulation for organic solar cells. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 435502.	1.3	16
93	MgZnO/ZnO Heterostructure Field-Effect Transistors Fabricated by RF-Sputtering. <i>ECS Transactions</i> , 2013, 50, 83-93.	0.3	22
94	Transitions of bandgap and built-in stress for sputtered HfZnO thin films after thermal treatments. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	11
95	The effect of Zn/Sn Ratio on the Electrical Performance of Amorphous ZrZnSnO (ZZTO) Thin Film Transistors by RF Sputtering. <i>ECS Transactions</i> , 2013, 50, 185-189.	0.3	0
96	Influence of Annealing Conditions on the Bias Temperature Stability of MgZnO Thin Film Transistors. <i>ECS Transactions</i> , 2013, 50, 173-178.	0.3	2
97	Atmospheric pressure plasma jet annealed ZnO films for MgZnO/ZnO heterojunctions. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 075202.	1.3	24
98	Influence of the absorber layer thickness and rod length on the performance of three-dimensional nanorods thin film hydrogenated amorphous silicon solar cells. <i>Journal of Applied Physics</i> , 2013, 113, 163106.	1.1	7
99	Multi-layer thermoelectric-temperature-mapping microbial incubator designed for geo-biochemistry applications. <i>Review of Scientific Instruments</i> , 2012, 83, 045116.	0.6	1
100	Characterization of rf-sputtered HfMgZnO thin films. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1432, 187.	0.1	1
101	Enhanced optical absorption of dye-sensitized solar cells with microcavity-embedded TiO ₂ photoanodes. <i>Optics Express</i> , 2012, 20, A168.	1.7	24
102	Bandgap tuning of MgZnO in flexible transparent n+-ZnO:Al/n-MgZnO/p-CuAlOx:Ca diodes on polyethylene terephthalate substrates. <i>Journal of Alloys and Compounds</i> , 2012, 544, 111-114.	2.8	32
103	Two dimensional thermoelectric platforms for thermocapillary droplet actuation. <i>RSC Advances</i> , 2012, 2, 1639-1642.	1.7	11
104	Plasmonic multilayer nanoparticles enhanced photocurrent in thin film hydrogenated amorphous silicon solar cells. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	25
105	Phase transitions of room temperature RF-sputtered ZnO/Mg _{0.4} Zn _{0.6} O multilayer thin films after thermal annealing. <i>Thin Solid Films</i> , 2012, 520, 1918-1923.	0.8	13
106	Electrical properties of modulation-doped rf-sputtered polycrystalline MgZnO/ZnO heterostructures. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 455101.	1.3	24
107	Enhanced Photoelectrochemical Performance of Photoanode Fabricated Using Polystyrene Ball Embedded TiO ₂ Pastes. <i>Electrochemical and Solid-State Letters</i> , 2011, 14, B6.	2.2	11
108	Enhanced Thermoelectric Power in Dual-Gated Bilayer Graphene. <i>Physical Review Letters</i> , 2011, 107, 186602.	2.9	74

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109	Indium tin oxide sol-gel precursor conversion process using the third harmonics of Nd:YAG laser. Applied Surface Science, 2011, 257, 10042-10044.	3.1	4
110	Placement Optimization of Flexible TFT Digital Circuits. IEEE Design and Test of Computers, 2011, 28, 24-31.	1.4	5
111	DC and AC Gate-Bias Stability of Nanocrystalline Silicon Thin-Film Transistors Made on Colorless Polyimide Foil Substrates. Materials Research Society Symposia Proceedings, 2011, 1321, 259.	0.1	0
112	Dye-Sensitized Solar Cell with Photoanode Made with Polystyrene-Ball-Embedded TiO ₂ Pastes. Japanese Journal of Applied Physics, 2011, 50, 06GF09.	0.8	1
113	Dye-Sensitized Solar Cell with Photoanode Made with Polystyrene-Ball-Embedded TiO ₂ Pastes. Japanese Journal of Applied Physics, 2011, 50, 06GF09.	0.8	2
114	Mobility Enhancement of Polycrystalline MgZnO/ZnO Thin Film Layers With Modulation Doping and Polarization Effects. IEEE Transactions on Electron Devices, 2010, 57, 696-703.	1.6	51
115	The Influence of Electromechanical Stress on the Stability of Nanocrystalline Silicon Thin Film Transistors Made on Colorless Polyimide Foil. ECS Transactions, 2010, 33, 65-69.	0.3	2
116	Two dimensional electron gases in polycrystalline MgZnO/ZnO heterostructures grown by rf-sputtering process. Journal of Applied Physics, 2010, 108, .	1.1	71
117	The Electromechanical Characteristics of ZnO Grown on Poly(ethylene terephthalate) Substrates. Journal of the Electrochemical Society, 2010, 157, H750.	1.3	8
118	Reliability Screening of a-Si TFT Circuits: Very-Low Voltage and I_{DDQ} Testing. Journal of Display Technology, 2010, 6, 592-600.	1.3	2
119	Electromechanical Stability of Flexible Nanocrystalline-Silicon Thin-Film Transistors. IEEE Electron Device Letters, 2010, 31, 222-224.	2.2	4
120	Influences of Polarization Effects in the Electrical Properties of Polycrystalline MgZnO/ZnO Heterostructure. Materials Research Society Symposia Proceedings, 2009, 1201, 90.	0.1	0
121	Effects of electro-mechanical stressing on the electrical characterization of on-plastic a-Si:H thin film transistors. Materials Research Society Symposia Proceedings, 2009, 1153, 1.	0.1	1
122	Overview of Flexible Electronics Technology. Kluwer International Series in Electronic Materials: Science and Technology, 2009, , 1-28.	0.3	53
123	Very-Low-Voltage testing of amorphous silicon TFT circuits. , 2009, , .		1
124	Mobility Study of Polycrystalline MgZnO/ZnO Thin Film Layers with Monte Carlo Method. , 2009, , .		0
125	Very-Low-Voltage Testing of Amorphous Silicon TFT Circuits. , 2009, , .		1
126	Contact Resistance in Nanocrystalline Silicon Thin-Film Transistors. IEEE Transactions on Electron Devices, 2008, 55, 973-977.	1.6	9

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127	Fracture Mechanisms of SiN _x Thin-films on Compliant Substrates. Materials Research Society Symposia Proceedings, 2008, 1078, 140201.	0.1	0
128	Effects of SiN _x Passivation and Gate Metal Roughness on the Performance of On-plastic a-Si:H TFTs. Electrochemical and Solid-State Letters, 2008, 11, H26.	2.2	3
129	Temperature and humidity effects on the stability of on-plastic a-Si:H thin film transistors with various conduction channel layer thicknesses. Materials Research Society Symposia Proceedings, 2008, 1066, 1.	0.1	0
130	Abnormal temperature-dependent stability of on-plastic a-Si:H thin film transistors fabricated at 150°C. Journal of Applied Physics, 2008, 104, 044508.	1.1	11
131	A single-layer permeation barrier for organic light-emitting displays. Applied Physics Letters, 2008, 92, 103309.	1.5	71
132	Stability of Amorphous Silicon Thin Film Transistors under Prolonged High Compressive Strain. Materials Research Society Symposia Proceedings, 2007, 989, 4.	0.1	6
133	Self-Aligned Nanocrystalline Silicon Thin-Film Transistor With Deposited n+ Source/Drain Layer. Materials Research Society Symposia Proceedings, 2007, 989, 2.	0.1	1
134	Technical issues of stainless steel foil substrates for OLED display applications. , 2007, , .		3
135	Amorphous Silicon Thin-Film Transistor Backplanes Deposited at 200 °C on Clear Plastic for Lamination to Electrophoretic Displays. Journal of Display Technology, 2007, 3, 304-308.	1.3	12
136	Effect of SiN _x Gate Dielectric Deposition Power and Temperature on a-Si:H TFT Stability. IEEE Electron Device Letters, 2007, 28, 606-608.	2.2	17
137	Amorphous-silicon thin-film transistors made at 280°C on clear-plastic substrates by interfacial stress engineering. Journal of the Society for Information Display, 2007, 15, 167.	0.8	6
138	Active-matrix organic light-emitting displays employing two thin-film-transistor a-Si:H pixels on flexible stainless-steel foil. Journal of the Society for Information Display, 2007, 15, 433.	0.8	13
139	High mobility nanocrystalline silicon transistors on clear plastic substrates. IEEE Electron Device Letters, 2006, 27, 49-51.	2.2	28
140	Self-aligned amorphous-silicon TFTs on clear plastic substrates. IEEE Electron Device Letters, 2006, 27, 166-168.	2.2	18
141	Stability of amorphous-silicon TFTs deposited on clear plastic substrates at 250/spl deg/C to 280/spl deg/ C. IEEE Electron Device Letters, 2006, 27, 111-113.	2.2	86
142	Overlay Alignment in a-Si:H TFTs Fabricated on Foil Substrates. ECS Transactions, 2006, 3, 249-253.	0.3	5
143	64.3: Amorphous Silicon Thin-Film Transistor Backplane on Stainless Steel Foil Substrates for AMOLEDs. Digest of Technical Papers SID International Symposium, 2006, 37, 1862.	0.1	5
144	Mechanics of thin-film transistors and solar cells on flexible substrates. Solar Energy, 2006, 80, 687-693.	2.9	125

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145	Active-Matrix Amorphous-Silicon TFTs Arrays at 180°C on Clear Plastic and Glass Substrates for Organic Light-Emitting Displays. IEEE Transactions on Electron Devices, 2006, 53, 1789-1796.	1.6	23
146	Amorphous Silicon 2-TFT Pixel Circuits on Stainless Steel Foils. Materials Research Society Symposia Proceedings, 2006, 910, 3.	0.1	2
147	SiN _x barrier layers deposited at 250°C on a clear polymer substrate. Materials Research Society Symposia Proceedings, 2006, 936, 1.	0.1	2
148	Thermomechanical criteria for overlay alignment in flexible thin-film electronic circuits. Applied Physics Letters, 2006, 88, 011905.	1.5	22
149	P-24: High-Temperature (250°C) Amorphous-Silicon TFT's On Clear Plastic Substrates. Digest of Technical Papers SID International Symposium, 2005, 36, 313.	0.1	5
150	Mechanics of TFT Technology on Flexible Substrates. , 2005, , 263-283.		45
151	Nanocrystalline Silicon Thin Film Transistors on Optically Clear Polymer Foil Substrates. Materials Research Society Symposia Proceedings, 2005, 870, 271.	0.1	1
152	Stress control for overlay registration in a-Si:H TFTs on flexible organic-polymer-foil substrates. Journal of the Society for Information Display, 2005, 13, 563.	0.8	41
153	Monolithically Integrated p- & n- Channel Thin Film Transistors of Nanocrystalline Silicon on Plastic Substrates. Materials Research Society Symposia Proceedings, 2004, 808, 281.	0.1	4
154	Hydrogen in Ultralow Temperature SiO ₂ for Nanocrystalline Silicon Thin Film Transistors. Materials Research Society Symposia Proceedings, 2004, 814, 30.	0.1	2
155	Evolution of nanocrystalline silicon thin film transistor channel layers. Journal of Non-Crystalline Solids, 2004, 338-340, 720-724.	1.5	40
156	Nanocrystalline silicon thin film transistors. IET Circuits, Devices and Systems, 2003, 150, 339.	0.6	31
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