

I-Chun Cheng

List of Publications by Year in descending order

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164
papers

2,965
citations

172207

29
h-index

223531

46
g-index

166
all docs

166
docs citations

166
times ranked

2876
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanics of thin-film transistors and solar cells on flexible substrates. <i>Solar Energy</i> , 2006, 80, 687-693.	2.9	125
2	Broadband antireflection film with moth-eye-like structure for flexible display applications. <i>Optica</i> , 2017, 4, 678.	4.8	122
3	Silicon for thin-film transistors. <i>Thin Solid Films</i> , 2003, 430, 15-19.	0.8	93
4	Hole and electron field-effect mobilities in nanocrystalline silicon deposited at 150°C. <i>Applied Physics Letters</i> , 2002, 80, 440-442.	1.5	91
5	Stability of amorphous-silicon TFTs deposited on clear plastic substrates at 250/spl deg/C to 280/spl deg/ C. <i>IEEE Electron Device Letters</i> , 2006, 27, 111-113.	2.2	86
6	Enhanced Thermoelectric Power in Dual-Gated Bilayer Graphene. <i>Physical Review Letters</i> , 2011, 107, 186602.	2.9	74
7	A single-layer permeation barrier for organic light-emitting displays. <i>Applied Physics Letters</i> , 2008, 92, 103309.	1.5	71
8	Two dimensional electron gases in polycrystalline MgZnO/ZnO heterostructures grown by rf-sputtering process. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	71
9	Preparation of nanoporous TiO ₂ films for DSSC application by a rapid atmospheric pressure plasma jet sintering process. <i>Journal of Power Sources</i> , 2013, 234, 16-22.	4.0	71
10	Rapid Atmospheric Pressure Plasma Jet Processed Reduced Graphene Oxide Counter Electrodes for Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 15105-15112.	4.0	71
11	Gate-Bias Stress Stability of P-Type SnO Thin-Film Transistors Fabricated by RF-Sputtering. <i>IEEE Electron Device Letters</i> , 2014, 35, 90-92.	2.2	63
12	Flexible Complementary Oxide Semiconductor-Based Circuits Employing n-Channel ZnO and p-Channel SnO Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2016, 37, 46-49.	2.2	61
13	Complementary Oxide Semiconductor-Based Circuits With n-Channel ZnO and p-Channel SnO Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2014, 35, 1263-1265.	2.2	59
14	Ultrafast synthesis of carbon-nanotube counter electrodes for dye-sensitized solar cells using an atmospheric-pressure plasma jet. <i>Carbon</i> , 2016, 98, 34-40.	5.4	59
15	Improved performance of polyaniline/reduced-graphene-oxide supercapacitor using atmospheric-pressure-plasma-jet surface treatment of carbon cloth. <i>Electrochimica Acta</i> , 2018, 260, 391-399.	2.6	58
16	Overview of Flexible Electronics Technology. <i>Kluwer International Series in Electronic Materials: Science and Technology</i> , 2009, , 1-28.	0.3	53
17	Mobility Enhancement of Polycrystalline MgZnO/ZnO Thin Film Layers With Modulation Doping and Polarization Effects. <i>IEEE Transactions on Electron Devices</i> , 2010, 57, 696-703.	1.6	51
18	Dye-sensitized solar cells with nanoporous TiO ₂ photoanodes sintered by N ₂ and air atmospheric pressure plasma jets with/without air-quenching. <i>Journal of Power Sources</i> , 2014, 251, 215-221.	4.0	50

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19	Atmospheric pressure plasma jet processed nanoporous Fe ₂ O ₃ /CNT composites for supercapacitor application. <i>Journal of Alloys and Compounds</i> , 2016, 676, 469-473.	2.8	48
20	Mechanics of TFT Technology on Flexible Substrates. , 2005, , 263-283.		45
21	Stress control for overlay registration in a-Si:H TFTs on flexible organic-polymer-foil substrates. <i>Journal of the Society for Information Display</i> , 2005, 13, 563.	0.8	41
22	Atmospheric-pressure-plasma-jet processed carbon nanotube (CNT)â€“reduced graphene oxide (rGO) nanocomposites for gel-electrolyte supercapacitors. <i>RSC Advances</i> , 2018, 8, 2851-2857.	1.7	41
23	Evolution of nanocrystalline silicon thin film transistor channel layers. <i>Journal of Non-Crystalline Solids</i> , 2004, 338-340, 720-724.	1.5	40
24	Solâ€“gel derived amorphous/nanocrystalline MgZnO thin films annealed by atmospheric pressure plasma jets. <i>Ceramics International</i> , 2014, 40, 2707-2715.	2.3	35
25	Oxygen-deficient indium tin oxide thin films annealed by atmospheric pressure plasma jets with/without air-quenching. <i>Applied Surface Science</i> , 2014, 292, 213-218.	3.1	35
26	Atmospheric pressure plasma jet processed reduced graphene oxides for supercapacitor application. <i>Journal of Alloys and Compounds</i> , 2017, 692, 558-562.	2.8	35
27	Application of atmospheric-pressure plasma jet processed carbon nanotubes to liquid and quasi-solid-state gel electrolyte supercapacitors. <i>Applied Surface Science</i> , 2017, 425, 321-328.	3.1	34
28	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
29	Nanocrystalline silicon thin film transistors. <i>IET Circuits, Devices and Systems</i> , 2003, 150, 339.	0.6	31
30	Rapid Atmospheric-Pressure-Plasma-Jet Processed Porous Materials for Energy Harvesting and Storage Devices. <i>Coatings</i> , 2015, 5, 26-38.	1.2	31
31	High mobility nanocrystalline silicon transistors on clear plastic substrates. <i>IEEE Electron Device Letters</i> , 2006, 27, 49-51.	2.2	28
32	Influence of rapid-thermal-annealing temperature on properties of rf-sputtered SnOx thin films. <i>Applied Surface Science</i> , 2015, 327, 358-363.	3.1	27
33	UV photocurrent responses of ZnO and MgZnO/ZnO processed by atmospheric pressure plasma jets. <i>Journal of Alloys and Compounds</i> , 2015, 628, 68-74.	2.8	26
34	Plasmonic multilayer nanoparticles enhanced photocurrent in thin film hydrogenated amorphous silicon solar cells. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	25
35	Atmospheric-Pressure Plasma Jet Processed Pt-Decorated Reduced Graphene Oxides for Counter-Electrodes of Dye-Sensitized Solar Cells. <i>Coatings</i> , 2016, 6, 44.	1.2	25
36	Electrical properties of modulation-doped rf-sputtered polycrystalline MgZnO/ZnO heterostructures. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 455101.	1.3	24

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37	Enhanced optical absorption of dye-sensitized solar cells with microcavity-embedded TiO ₂ photoanodes. <i>Optics Express</i> , 2012, 20, A168.	1.7	24
38	Flexible Transparent ZnO:Al/ZnO/CuAlO _x :Ca Heterojunction Diodes on Polyethylene Terephthalate Substrates. <i>Journal of Electronic Materials</i> , 2013, 42, 1242-1245.	1.0	24
39	Atmospheric pressure plasma jet annealed ZnO films for MgZnO/ZnO heterojunctions. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 075202.	1.3	24
40	Atmospheric-pressure plasma jet processed Pt/ZnO composites and its application as counter-electrodes for dye-sensitized solar cells. <i>Applied Surface Science</i> , 2018, 436, 690-696.	3.1	24
41	Nitrogen DC-pulse atmospheric-pressure-plasma jet (APPJ)-processed reduced graphene oxide (rGO)@carbon black (CB) nanocomposite electrodes for supercapacitor applications. <i>Diamond and Related Materials</i> , 2018, 88, 23-31.	1.8	24
42	Active-Matrix Amorphous-Silicon TFTs Arrays at 180°C on Clear Plastic and Glass Substrates for Organic Light-Emitting Displays. <i>IEEE Transactions on Electron Devices</i> , 2006, 53, 1789-1796.	1.6	23
43	Deposition of transparent and conductive ZnO films by an atmospheric pressure plasma-jet-assisted process. <i>Thin Solid Films</i> , 2014, 570, 423-428.	0.8	23
44	Mobility Enhancement in RF-Sputtered MgZnO/ZnO Heterostructure Thin-Film Transistors. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 1545-1549.	1.6	23
45	Thermomechanical criteria for overlay alignment in flexible thin-film electronic circuits. <i>Applied Physics Letters</i> , 2006, 88, 011905.	1.5	22
46	MgZnO/ZnO Heterostructure Field-Effect Transistors Fabricated by RF-Sputtering. <i>ECS Transactions</i> , 2013, 50, 83-93.	0.3	22
47	Flexible reduced graphene oxide supercapacitor fabricated using a nitrogen dc-pulse atmospheric-pressure plasma jet. <i>Materials Research Express</i> , 2017, 4, 025504.	0.8	22
48	Atmospheric-pressure-plasma-jet processed nanoporous TiO ₂ photoanodes and Pt counter-electrodes for dye-sensitized solar cells. <i>RSC Advances</i> , 2015, 5, 45662-45667.	1.7	21
49	Scan-Mode Atmospheric-Pressure Plasma Jet Processed Reduced Graphene Oxides for Quasi-Solid-State Gel-Electrolyte Supercapacitors. <i>Coatings</i> , 2018, 8, 52.	1.2	20
50	Feasibility study of atmospheric-pressure dielectric barrier discharge treatment on CH ₃ NH ₃ PbI ₃ films for inverted planar perovskite solar cells. <i>Electrochimica Acta</i> , 2019, 293, 1-7.	2.6	20
51	O ₂ /HMDSO-Plasma-Deposited Organic-Inorganic Hybrid Film for Gate Dielectric of MgZnO Thin-Film Transistor. <i>Plasma Processes and Polymers</i> , 2014, 11, 89-95.	1.6	19
52	In-situ atmospheric-pressure dielectric barrier discharge plasma treated CH ₃ NH ₃ PbI ₃ for perovskite solar cells in regular architecture. <i>Applied Surface Science</i> , 2019, 473, 468-475.	3.1	19
53	High hole and electron field effect mobilities in nanocrystalline silicon deposited at 150 Å°C. <i>Thin Solid Films</i> , 2003, 427, 56-59.	0.8	18
54	Self-aligned amorphous-silicon TFTs on clear plastic substrates. <i>IEEE Electron Device Letters</i> , 2006, 27, 166-168.	2.2	18

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55	Atmospheric-Pressure-Plasma-Jet Particulate TiO ₂ Scattering Layer Deposition Processes for Dye-Sensitized Solar Cells. <i>ECS Journal of Solid State Science and Technology</i> , 2014, 3, Q177-Q181.	0.9	18
56	Ultrafast synthesis of continuous Au thin films from chloroauric acid solution using an atmospheric pressure plasma jet. <i>RSC Advances</i> , 2015, 5, 99654-99657.	1.7	18
57	Effect of SiN_x Gate Dielectric Deposition Power and Temperature on a-Si:H TFT Stability. <i>IEEE Electron Device Letters</i> , 2007, 28, 606-608.	2.2	17
58	Low-Temperature ($40\text{ }^\circ\text{C}$) Atmospheric-Pressure Dielectric-Barrier-Discharge-Jet Treatment on Nickel Oxide for $\text{p}^+\text{i}^-\text{n}$ Structure Perovskite Solar Cells. <i>ACS Omega</i> , 2020, 5, 6082-6089.	1.6	17
59	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
60	Effects of drain-bias and ambient on hump formation in the transfer curves of positively gate-biased MgZnO thin film transistors. <i>Thin Solid Films</i> , 2013, 529, 360-363.	0.8	16
61	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
62	Atmospheric Pressure Plasma Jet-Assisted Synthesis of Zeolite-Based Low- κ Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 900-908.	4.0	16
63	Dielectric Barrier Discharge Plasma Jet (DBDjet) Processed Reduced Graphene Oxide/Polypyrrole/Chitosan Nanocomposite Supercapacitors. <i>Polymers</i> , 2021, 13, 3585.	2.0	16
64	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
65	Active-matrix organic light-emitting displays employing two thin-film-transistor a-Si:H pixels on flexible stainless-steel foil. <i>Journal of the Society for Information Display</i> , 2007, 15, 433.	0.8	13
66	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
67	Atmospheric-pressure-plasma-jet sintered dual-scale porous TiO ₂ using an economically favorable NaCl solution. <i>Journal of Power Sources</i> , 2015, 281, 252-257.	4.0	13
68	Influence of Ca/Al Ratio on Properties of Amorphous/Nanocrystalline Cu-Al-Ca-O Thin Films. <i>Journal of the American Ceramic Society</i> , 2015, 98, 125-129.	1.9	13
69	Amorphous Silicon Thin-Film Transistor Backplanes Deposited at 200 $^\circ\text{C}$ on Clear Plastic for Lamination to Electrophoretic Displays. <i>Journal of Display Technology</i> , 2007, 3, 304-308.	1.3	12
70	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
71	Electromechanical properties of MgZnO/ZnO heterostructures on flexible polyimide and stainless steel substrates under flexing. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 255102.	1.3	12
72	Influence of annealing temperature on properties of room-temperature rf-sputtered CuAlOx:Ca thin films. <i>Thin Solid Films</i> , 2014, 550, 591-594.	0.8	12

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73	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
74	Enhanced Photoelectrochemical Performance of Photoanode Fabricated Using Polystyrene Ball Embedded TiO ₂ Pastes. Electrochemical and Solid-State Letters, 2011, 14, B6.	2.2	11
75	Two dimensional thermoelectric platforms for thermocapillary droplet actuation. RSC Advances, 2012, 2, 1639-1642.	1.7	11
76	Transitions of bandgap and built-in stress for sputtered HfZnO thin films after thermal treatments. Journal of Applied Physics, 2013, 114, .	1.1	11
77	Solution-processed ultra-low-k thin films comprising single-walled aluminosilicate nanotubes. Nanoscale, 2016, 8, 17427-17432.	2.8	11
78	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
79	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
80	Contact Resistance in Nanocrystalline Silicon Thin-Film Transistors. IEEE Transactions on Electron Devices, 2008, 55, 973-977.	1.6	9
81	Periodic anti-ring back reflectors for hydrogenated amorphous silicon thin-film solar cells. Optics Express, 2014, 22, A1128.	1.7	9
82	Effect of Al/Cu ratios on the optical, electrical, and electrochemical properties of Cu-Al-Ca-O thin films. Journal of Alloys and Compounds, 2014, 609, 111-115.	2.8	9
83	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
84	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
85	Facile method to convert petal effect surface to lotus effect surface for superhydrophobic polydimethylsiloxane. Surfaces and Interfaces, 2022, 30, 101901.	1.5	9
86	The Electromechanical Characteristics of ZnO Grown on Poly(ethylene terephthalate) Substrates. Journal of the Electrochemical Society, 2010, 157, H750.	1.3	8
87	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
88	Optoelectronic properties of infrared rapid-thermal-annealed SnOx thin films. Ceramics International, 2015, 41, 13502-13508.	2.3	8
89	Dielectric barrier discharge jet processed TiO ₂ nanoparticle layer for flexible perovskite solar cells. Journal Physics D: Applied Physics, 2022, 55, 034003.	1.3	8
90	Influence of the absorber layer thickness and rod length on the performance of three-dimensional nanorods thin film hydrogenated amorphous silicon solar cells. Journal of Applied Physics, 2013, 113, 163106.	1.1	7

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91	Dynamically programmable surface micro-wrinkles on PDMS-SMA composite. <i>Smart Materials and Structures</i> , 2014, 23, 115007.	1.8	7
92	Atmospheric-pressure surface-diffusion dielectric-barrier discharge (SDDBD) plasma surface modification of PEDOT:PSS. <i>Synthetic Metals</i> , 2019, 256, 116114.	2.1	7
93	Stability of Amorphous Silicon Thin Film Transistors under Prolonged High Compressive Strain. <i>Materials Research Society Symposia Proceedings</i> , 2007, 989, 4.	0.1	6
94	Amorphous-silicon thin-film transistors made at 280Å°C on clear-plastic substrates by interfacial stress engineering. <i>Journal of the Society for Information Display</i> , 2007, 15, 167.	0.8	6
95	Deposition of ZnO Thin Films by an Atmospheric Pressure Plasma Jet-Assisted Process: The Selection of Precursors. <i>IEEE Transactions on Plasma Science</i> , 2015, 43, 670-674.	0.6	6
96	Atmospheric-pressure-plasma-jet sintered nanoporous AlN/CNT composites. <i>Applied Surface Science</i> , 2016, 377, 75-80.	3.1	6
97	Surfactant-mediated self-assembly of nanocrystals to form hierarchically structured zeolite thin films with controlled crystal orientation. <i>RSC Advances</i> , 2017, 7, 49048-49055.	1.7	6
98	Time Evolution Characterization of Atmospheric-Pressure Plasma Jet (APPJ)-Synthesized Pt-SnOx Catalysts. <i>Metals</i> , 2018, 8, 690.	1.0	6
99	Conversion of dense and continuous nickel oxide compound thin films using nitrogen DC-pulse atmospheric-pressure plasma jet. <i>Ceramics International</i> , 2019, 45, 22078-22084.	2.3	6
100	Low Temperature ($\leq 40\text{ Å}^\circ\text{C}$) 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
101	High Electron Mobility TFTs of Nanocrystalline Silicon Deposited at 150Å°C on Plastic Foil. <i>Materials Research Society Symposia Proceedings</i> , 2001, 664, 2611.	0.1	5
102	Polycrystalline Silicon Thin-Film Transistors. <i>Solid State Phenomena</i> , 2001, 80-81, 325-336.	0.3	5
103	P-24: High-Temperature (250Å°C) Amorphous-Silicon TFT's On Clear Plastic Substrates. <i>Digest of Technical Papers SID International Symposium</i> , 2005, 36, 313.	0.1	5
104	Overlay Alignment in a-Si:H TFTs Fabricated on Foil Substrates. <i>ECS Transactions</i> , 2006, 3, 249-253.	0.3	5
105	64.3: Amorphous Silicon Thin-Film Transistor Backplane on Stainless Steel Foil Substrates for AMOLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2006, 37, 1862.	0.1	5
106	Placement Optimization of Flexible TFT Digital Circuits. <i>IEEE Design and Test of Computers</i> , 2011, 28, 24-31.	1.4	5
107	Plasma-etched nanoporous TiO ₂ using Ag nanoparticle masks: application for photoanodes of dye-sensitized solar cells. <i>Materials Research Express</i> , 2014, 1, 025505.	0.8	5
108	Nitrogen Atmospheric-Pressure-Plasma-Jet Induced Oxidation of SnOx Thin Films. <i>Plasma Chemistry and Plasma Processing</i> , 2015, 35, 979-991.	1.1	5

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109	Ar dielectric barrier discharge jet (DBDjet) plasma treatment of reduced graphene oxide (rGO)â€“polyaniline (PANI)â€“chitosan (CS) nanocomposite on carbon cloth for supercapacitor application. Energy, Ecology and Environment, 2020, 5, 134-140.	1.9	5
110	Flexible reduced graphene oxide supercapacitors processed using atmospheric-pressure plasma jet under various temperatures adjusted by flow rate and jet-substrate distance. Materials Research Express, 2020, 7, 015602.	0.8	5
111	Mobility Enhancement in P-Type SnO Thin-Film Transistors via Ni Incorporation by Co-Sputtering. IEEE Electron Device Letters, 2022, 43, 228-231.	2.2	5
112	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
113	Electromechanical Stability of Flexible Nanocrystalline-Silicon Thin-Film Transistors. IEEE Electron Device Letters, 2010, 31, 222-224.	2.2	4
114	Indium tin oxide solâ€“gel precursor conversion process using the third harmonics of Nd:YAG laser. Applied Surface Science, 2011, 257, 10042-10044.	3.1	4
115	Flexible TFT Circuit Analyzer Considering Process Variation, Aging, and Bending Effects. Journal of Display Technology, 2014, 10, 19-27.	1.3	4
116	Dual light-activated microfluidic pumps based on an optopiezoelectric composite. Journal of Micromechanics and Microengineering, 2017, 27, 125003.	1.5	4
117	Improved efficiency and air stability of two-dimensional p-i-n inverted perovskite solar cells by Cs doping. RSC Advances, 2021, 11, 20200-20206.	1.7	4
118	Feasibility Study of Dielectric Barrier Discharge Jet-Patterned Perfluorodecyltrichlorosilane-Coated Paper for Biochemical Diagnosis. ECS Journal of Solid State Science and Technology, 2021, 10, 037005.	0.9	4
119	Low-Pressure Plasma-Processed Ruthenium/Nickel Foam Electrocatalysts for Hydrogen Evolution Reaction. Materials, 2022, 15, 2603.	1.3	4
120	Thin Film Transistors with Electron Mobility of $40 \text{ cm}^2/\text{Vs}$ Made from Directly Deposited Intrinsic Microcrystalline Silicon. Materials Research Society Symposia Proceedings, 2000, 609, 3121.	0.1	3
121	Technical issues of stainless steel foil substrates for OLED display applications. , 2007, , .		3
122	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
123	A Flexible TFT Circuit Yield Optimizer Considering Process Variation, Aging, and Bending Effects. Journal of Display Technology, 2014, 10, 1055-1063.	1.3	3
124	Silver mirror reaction metallized chromatography paper for supercapacitor application. Flexible and Printed Electronics, 2021, 6, 045010.	1.5	3
125	Hydrogen in Ultralow Temperature SiO ₂ for Nanocrystalline Silicon Thin Film Transistors. Materials Research Society Symposia Proceedings, 2004, 814, 30.	0.1	2
126	Amorphous Silicon 2-TFT Pixel Circuits on Stainless Steel Foils. Materials Research Society Symposia Proceedings, 2006, 910, 3.	0.1	2

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127	SiN _x barrier layers deposited at 250Å°C on a clear polymer substrate. Materials Research Society Symposia Proceedings, 2006, 936, 1.	0.1	2
128	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
129	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
130	Influence of Annealing Conditions on the Bias Temperature Stability of MgZnO Thin Film Transistors. ECS Transactions, 2013, 50, 173-178.	0.3	2
131	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
132	Characterization of Hf/Mg co-doped ZnO thin films after thermal treatments. Thin Solid Films, 2014, 570, 457-463.	0.8	2
133	Oxidation of sputtered metallic Sn thin films using N ₂ atmospheric pressure plasma jets. Materials Research Express, 2015, 2, 016504.	0.8	2
134	Electrochemical and Microstructural Investigations of PtFe Nanocompounds Synthesized by Atmospheric-Pressure Plasma Jet. Journal of the Electrochemical Society, 2020, 167, 056501.	1.3	2
135	Concentration effect on properties of Pt-NiOx nanocompounds converted from mixed chloroplatinic acid and nickel acetate precursor films using an atmospheric-pressure plasma jet. Journal of Applied Physics, 2020, 128, 043302.	1.1	2
136	Flexible and Printed Electronics. , 2017, , 813-854.		2
137	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
138	Influence of mechanical bending strain on bias-stress stability of flexible top-gate p-type SnO TFTs. , 2020, , .		2
139	Evolution of Nanocrystalline Silicon Layers Deposited at 150Å°C for Thin Film Transistor Channels. Materials Research Society Symposia Proceedings, 2003, 769, 681.	0.1	1
140	Nanocrystalline Silicon Thin Film Transistors on Optically Clear Polymer Foil Substrates. Materials Research Society Symposia Proceedings, 2005, 870, 271.	0.1	1
141	Self-Aligned Nanocrystalline Silicon Thin-Film Transistor With Deposited n+ Source/Drain Layer. Materials Research Society Symposia Proceedings, 2007, 989, 2.	0.1	1
142	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
143	Very-Low-Voltage testing of amorphous silicon TFT circuits. , 2009, , .		1
144	Very-Low-Voltage Testing of Amorphous Silicon TFT Circuits. , 2009, , .		1

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145	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
146	Multi-layer thermoelectric-temperature-mapping microbial incubator designed for geo-biochemistry applications. Review of Scientific Instruments, 2012, 83, 045116.	0.6	1
147	Characterization of rf-sputtered HfMgZnO thin films. Materials Research Society Symposia Proceedings, 2012, 1432, 187.	0.1	1
148	Microstructural, electrical, and optical properties of sol-gel derived HfMgZnO thin films. Materials Research Express, 2015, 2, 096402.	0.8	1
149	40Å: Moth-eye Anti-reflection Surface for Sunlight Readable Flexible Displays. Digest of Technical Papers SID International Symposium, 2017, 48, 574-577.	0.1	1
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