Hyun Jae Kim

List of Publications by Year
in descending order

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415 papers	8,549 citations	47006 47 h-index	60623 81 g-index
420 all docs	420 docs citations	420 times ranked	5811 citing authors

#	Article	IF	Citations
1	Phase transformation mechanisms involved in excimer laser crystallization of amorphous silicon films. Applied Physics Letters, 1993, 63, 1969-1971.	3.3	525
2	A Review of Lowâ€Temperature Solutionâ€Processed Metal Oxide Thinâ€Film Transistors for Flexible Electronics. Advanced Functional Materials, 2020, 30, 1904632.	14.9	265
3	On the super lateral growth phenomenon observed in excimer laserâ€induced crystallization of thin Si films. Applied Physics Letters, 1994, 64, 2303-2305.	3.3	223
4	Effect of indium composition ratio on solution-processed nanocrystalline InGaZnO thin film transistors. Applied Physics Letters, 2009, 94, .	3.3	200
5	Comparison of the effects of Ar and H2 plasmas on the performance of homojunctioned amorphous indium gallium zinc oxide thin film transistors. Applied Physics Letters, 2008, 93, .	3.3	191
6	Formation Mechanism of Solution-Processed Nanocrystalline InGaZnO Thin Film as Active Channel Layer in Thin-Film Transistor. Journal of the Electrochemical Society, 2009, 156, H7.	2.9	187
7	Review of solution-processed oxide thin-film transistors. Japanese Journal of Applied Physics, 2014, 53, 02BA02.	1.5	182
8	Boost Up Mobility of Solutionâ€Processed Metal Oxide Thinâ€Film Transistors via Confining Structure on Electron Pathways. Advanced Materials, 2014, 26, 4273-4278.	21.0	175
9	Inâ€Depth Studies on Rapid Photochemical Activation of Various Solâ€“Gel Metal Oxide Films for Flexible Transparent Electronics. Advanced Functional Materials, 2015, 25, 2807-2815.	14.9	172
10	Effect of Zr addition on ZnSnO thin-film transistors using a solution process. Applied Physics Letters, 2010, 97, .	3.3	168
11	Simultaneous modification of pyrolysis and densification for low-temperature solution-processed flexible oxide thin-film transistors. Journal of Materials Chemistry, 2012, 22, 12491.	6.7	158
12	Inkjet-printed InGaZnO thin film transistor. Thin Solid Films, 2009, 517, 4007-4010.	1.8	153
13	Influence of thermal annealing ambient on Ga-doped ZnO thin films. Journal of Crystal Growth, 2007, 309, 128-133.	1.5	137
14	Investigation of the effects of Mg incorporation into InZnO for high-performance and high-stability solution-processed thin film transistors. Applied Physics Letters, 2010, 96, .	3.3	136
15	Investigating addition effect of hafnium in InZnO thin film transistors using a solution process. Applied Physics Letters, 2010, 96, .	3.3	131
16	Direct Light Pattern Integration of Low-Temperature Solution-Processed All-Oxide Flexible Electronics. ACS Nano, 2014, 8, 9680-9686.	14.6	128
17	Controlled Super-Lateral Growth of Si Films for Microstructural Manipulation and Optimization. Physica Status Solidi A, 1998, 166, 603-617.	1.7	123
18	Investigation on doping dependency of solution-processed Ga-doped ZnO thin film transistor. Applied Physics Letters, 2008, 93, .	3.3	114

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19	New excimerâ€laserâ€crystallization method for producing largeâ€grained and grain boundaryâ€locationâ€controlled Si films for thin film transistors. Applied Physics Letters, 1996, 68, 1513-1515.	3.3	112
20	Low-Temperature Metal-Oxide Thin-Film Transistors Formed by Directly Photopatternable and Combustible Solution Synthesis. ACS Applied Materials & Interfaces, 2013, 5, 3565-3571.	8.0	98
21	Highly sensitive active pixel image sensor array driven by large-area bilayer MoS2 transistor circuitry. Nature Communications, 2021, 12, 3559.	12.8	94
22	Analysis of the Bipolar Resistive Switching Behavior of a Biocompatible Glucose Film for Resistive Random Access Memory. Advanced Materials, 2018, 30, e1800722.	21.0	85
23	Electrical characteristics of solutionâ€processed InGaZnO thin film transistors depending on Ga concentration. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1677-1679.	1.8	84
24	Improved Electrical Performance of an Oxide Thin-Film Transistor Having Multistacked Active Layers Using a Solution Process. ACS Applied Materials & Interfaces, 2012, 4, 4001-4005.	8.0	81
25	Low power micro-gas sensors using mixed SnO2 nanoparticles and MWCNTs to detect NO2, NH3, and xylene gases for ubiquitous sensor network applications. Sensors and Actuators B: Chemical, 2010, 150, 65-72.	7.8	78
26	High-pressure Gas Activation for Amorphous Indium-Gallium-Zinc-Oxide Thin-Film Transistors at 100â€‰Â°C. Scientific Reports, 2016, 6, 23039.	3.3	76
27	A review of multi-stacked active-layer structures for solution-processed oxide semiconductor thin-film transistors. Journal of Information Display, 2016, 17, 93-101.	4.0	75
28	Activation of sputter-processed indiumâ€“galliumâ€“zinc oxide films by simultaneous ultraviolet and thermal treatments. Scientific Reports, 2016, 6, 21869.	3.3	75
29	Resistive Switching Properties through Iodine Migrations of a Hybrid Perovskite Insulating Layer. Advanced Materials Interfaces, 2017, 4, 1601035.	3.7	75
30	Effects of ZnO Nanoparticles on P3HT:PCBM Organic Solar Cells with DMF-Modulated PEDOT:PSS Buffer Layers. ACS Applied Materials & Interfaces, 2013, 5, 11530-11534.	8.0	71
31	Improvement in Negative Bias Stress Stability of Solution-Processed Amorphous Inâ€“Gaâ€“Znâ€“O Thin-Film Transistors Using Hydrogen Peroxide. ACS Applied Materials & Interfaces, 2014, 6, 3371-3377.	8.0	71
32	High Electrical Performance of Wet-Processed Indium Zinc Oxide Thin-Film Transistors. IEEE Electron Device Letters, 2010, 31, 311-313.	3.9	68
33	Enhanced Electrical Characteristics and Stability via Simultaneous Ultraviolet and Thermal Treatment of Passivated Amorphous Inâ€“Gaâ€“Znâ€“O Thin-Film Transistors. ACS Applied Materials & Interfaces, 2014, 6, 6399-6405.	8.0	67
34	A Review of Phototransistors Using Metal Oxide Semiconductors: Research Progress and Future Directions. Advanced Materials, 2021, 33, e2006091.	21.0	67
35	Low-Temperature Solution Processing of AlInZnO/InZnO Dual-Channel Thin-Film Transistors. IEEE Electron Device Letters, 2011, 32, 1242-1244.	3.9	64
36	Chemical Stability and Electrical Performance of Dual-Active-Layered Zincâ€“Tinâ€“Oxide/Indiumâ€“Galliumâ€“Zincâ€“Oxide Thin-Film Transistors Using a Solution Process. ACS Applied Materials & Interfaces, 2013, 5, 6108-6112.	8.0	60

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37	The effect of La in InZnO systems for solution-processed amorphous oxide thin-film transistors. Applied Physics Letters, 2010, 97, .	3.3	59
38	Free-electron creation at the 60Â° twin boundary in Bi2Te3. Nature Communications, 2016, 7, 12449.	12.8	59
39	Low-Cost Label-Free Electrical Detection of Artificial DNA Nanostructures Using Solution-Processed Oxide Thin-Film Transistors. ACS Applied Materials & Interfaces, 2013, 5, 10715-10720.	8.0	58
40	Approaches to label-free flexible DNA biosensors using low-temperature solution-processed InZnO thin-film transistors. Biosensors and Bioelectronics, 2014, 55, 99-105.	10.1	56
41	Carrier-suppressing effect of scandium in InZnO systems for solution-processed thin film transistors. Applied Physics Letters, 2010, 97, .	3.3	54
42	Simple Method to Enhance Positive Bias Stress Stability of Inâ€“Gaâ€“Znâ€“O Thin-Film Transistors Using a Vertically Graded Oxygen-Vacancy Active Layer. ACS Applied Materials & Interfaces, 2014, 6, 21363-21368.	8.0	53
43	A Novel Amorphous InGaZnO Thin Film Transistor Structure without Source/Drain Layer Deposition. Japanese Journal of Applied Physics, 2009, 48, 03B019.	1.5	52
44	Study of Nitrogen High-Pressure Annealing on InGaZnO Thin-Film Transistors. ACS Applied Materials & Interfaces, 2014, 6, 13496-13501.	8.0	52
45	Neuromorphic Active Pixel Image Sensor Array for Visual Memory. ACS Nano, 2021, 15, 15362-15370.	14.6	52
46	Hydroxyl radical-assisted decomposition and oxidation in solution-processed indium oxide thin-film transistors. Journal of Materials Chemistry C, 2015, 3, 7499-7505.	5.5	51
47	Characteristics of gravure printed InGaZnO thin films as an active channel layer in thin film transistors. Thin Solid Films, 2010, 518, 6249-6252.	1.8	49
48	Low-temperature fabrication of an HfO2 passivation layer for amorphous indiumâ€“galliumâ€“zinc oxide thin film transistors using a solution process. Scientific Reports, 2017, 7, 16265.	3.3	47
49	Stability enhancement of organic solar cells with solution-processed nickel oxide thin films as hole transport layers. Solar Energy Materials and Solar Cells, 2012, 102, 103-108.	6.2	46
50	Investigation on doping behavior of copper in ZnO thin film. Microelectronics Journal, 2009, 40, 272-275.	2.0	45
51	Ink-Jet-Printed Zincâ€“Tinâ€“Oxide Thin-Film Transistors and Circuits With Rapid Thermal Annealing Process. IEEE Electron Device Letters, 2010, 31, 836-838.	3.9	45
52	Improvement of Electrical Characteristics and Stability of Amorphous Indium Gallium Zinc Oxide Thin Film Transistors Using Nitrocellulose Passivation Layer. ACS Applied Materials & Interfaces, 2017, 9, 13278-13285.	8.0	45
53	Simple Hydrogen Plasma Doping Process of Amorphous Indium Gallium Zinc Oxide-Based Phototransistors for Visible Light Detection. ACS Applied Materials & Interfaces, 2018, 10, 7223-7230.	8.0	45
54	Boosting Visible Light Absorption of Metal-Oxide-Based Phototransistors via Heterogeneous Inâ€“Gaâ€“Znâ€“O and CH₃NH₃PbI₃ Films. ACS Applied Materials & Interfaces, 2018, 10, 12854-12861.	8.0	45

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55	Low-Temperature Solution-Processed ZrO2 Gate Insulators for Thin-Film Transistors Using High-Pressure Annealing. Electrochemical and Solid-State Letters, 2011, 14, E35.	2.2	44
56	Defect reduction in photon-accelerated negative bias instability of InGaZnO thin-film transistors by high-pressure water vapor annealing. Applied Physics Letters, 2013, 102, .	3.3	44
57	Recent advances in low-temperature solution-processed oxide backplanes. Journal of Information Display, 2013, 14, 79-87.	4.0	44
58	Growth characteristics and properties of Ga-doped ZnO (GZO) thin films grown by thermal and plasma-enhanced atomic layer deposition. Applied Surface Science, 2014, 295, 260-265.	6.1	44
59	Flexible and Waterproof Resistive Randomâ€Access Memory Based on Nitrocellulose for Skinâ€Attachable Wearable Devices. Advanced Functional Materials, 2020, 30, 1907437.	14.9	44
60	The effect of thermal annealing sequence on amorphous InGaZnO thin film transistor with a plasma-treated sourceâ€“drain structure. Thin Solid Films, 2009, 517, 6349-6352.	1.8	43
61	Effects of UV light and carbon nanotube dopant on solution-based indium gallium zinc oxide thin-film transistors. Current Applied Physics, 2011, 11, 280-285.	2.4	43
62	Density-of-States Modeling of Solution-Processed InGaZnO Thin-Film Transistors. IEEE Electron Device Letters, 2010, 31, 1131-1133.	3.9	42
63	High Photosensitive Indiumâ€“Galliumâ€“Zinc Oxide Thin-Film Phototransistor with a Selenium Capping Layer for Visible-Light Detection. ACS Applied Materials & Interfaces, 2020, 12, 10673-10680.	8.0	42
64	Low temperature conduction and scattering behavior of Ga-doped ZnO. Applied Physics Letters, 2007, 91, 252109.	3.3	39
65	Transparent Ga-doped zinc oxide-based window heaters fabricated by pulsed laser deposition. Journal of Crystal Growth, 2008, 310, 3303-3307.	1.5	39
66	Electrical Properties of Yttriumâ€“Indiumâ€“Zinc-Oxide Thin Film Transistors Fabricated Using the Solâ€“Gel Process and Various Yttrium Compositions. Japanese Journal of Applied Physics, 2010, 49, 03CB01.	1.5	39
67	Gallium Doping Effects for Improving Switching Performance of p-Type Copper(I) Oxide Thin-Film Transistors. ACS Applied Materials & Interfaces, 2020, 12, 38350-38356.	8.0	38
68	On the mechanism of conductivity enhancement and work function control in PEDOT:PSS film through UV-light treatment. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1704-1707.	1.8	37
69	Analysis on thermite reactions of CuO nanowires and nanopowders coated with Al. Current Applied Physics, 2011, 11, 1067-1070.	2.4	37
70	Effects of Hf incorporation in solution-processed Hf-InZnO TFTs. Thin Solid Films, 2011, 519, 5740-5743.	1.8	37
71	High-Performance Oxide Thin-Film Transistors Using a Volatile Nitrate Precursor for Low-Temperature Solution Process. IEEE Electron Device Letters, 2012, 33, 68-70.	3.9	37
72	Enhanced Electrical Properties of Thin-Film Transistor with Self-Passivated Multistacked Active Layers. ACS Applied Materials & Interfaces, 2013, 5, 4190-4194.	8.0	36

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73	Near-field sub-diffraction photolithography with an elastomeric photomask. Nature Communications, 2020, 11, 805.	12.8	36
74	A two-dimensional DNA lattice implanted polymer solar cell. Nanotechnology, 2011, 22, 375202.	2.6	35
75	Reduction of activation temperature at 150Â°C for IGZO films with improved electrical performance via UV-thermal treatment. Journal of Information Display, 2016, 17, 73-78.	4.0	33
76	Artificially Fabricated Subgap States for Visible-Light Absorption in Indiumâ€“Galliumâ€“Zinc Oxide Phototransistor with Solution-Processed Oxide Absorption Layer. ACS Applied Materials & Interfaces, 2019, 11, 38964-38972.	8.0	32
77	Hole Transport Enhancing Effects of Polar Solvents on Poly(3,4-ethylenedioxythiophene):Poly(styrene) Tj ETQq1 1 0.784314 rgBT /Ov	8.0	31
78	Photoresist-Free Fully Self-Patterned Transparent Amorphous Oxide Thin-Film Transistors Obtained by Sol-Gel Process. Scientific Reports, 2014, 4, 4544.	3.3	31
79	A solution-processed quaternary oxide system obtained at low-temperature using a vertical diffusion technique. Scientific Reports, 2017, 7, 43216.	3.3	31
80	Low-temperature fabrication of solution-processed hafnium oxide gate insulator films using a thermally purified solution process. Journal of Materials Chemistry C, 2018, 6, 4928-4935.	5.5	31
81	The Effects of Dual-Active-Layer Modulation on a Low-Temperature Solution-Processed Oxide Thin-Film Transistor. IEEE Transactions on Electron Devices, 2012, 59, 2149-2152.	3.0	29
82	Highâ€performance vacuumâ€processed metal oxide thinâ€film transistors: A review of recent developments. Journal of the Society for Information Display, 2020, 28, 591-622.	2.1	28
83	Photosensitivity of solution-based indium gallium zinc oxide single-walled carbon nanotubes blend thin film transistors. Applied Physics Letters, 2009, 94, .	3.3	27
84	Electrical Responses of Artificial DNA Nanostructures on Solution-Processed In-Ga-Zn-O Thin-Film Transistors with Multistacked Active Layers. ACS Applied Materials & Interfaces, 2013, 5, 98-102.	8.0	27
85	Multifunctional, Room-Temperature Processable, Heterogeneous Organic Passivation Layer for Oxide Semiconductor Thin-Film Transistors. ACS Applied Materials & Interfaces, 2020, 12, 2615-2624.	8.0	27
86	Switching Enhancement via a Back-Channel Phase-Controlling Layer for p-Type Copper Oxide Thin-Film Transistors. ACS Applied Materials & Interfaces, 2020, 12, 24929-24939.	8.0	27
87	Low-voltage driving solution-processed nickel oxide based unipolar resistive switching memory with Ni nanoparticles. Journal of Materials Chemistry, 2012, 22, 17568.	6.7	26
88	Nitrocellulose-based collodion gate insulator for amorphous indium zinc gallium oxide thin-film transistors. Journal of Information Display, 2018, 19, 39-43.	4.0	26
89	Artificial DNA nanostructure detection using solution-processed In-Ga-Zn-O thin-film transistors. Applied Physics Letters, 2012, 100, .	3.3	25
90	Effect of Excimer Laser Annealing on the Performance of Amorphous Indium Gallium Zinc Oxide Thin-Film Transistors. Electrochemical and Solid-State Letters, 2009, 12, H430.	2.2	24

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91	Light effects of the amorphous indium gallium zinc oxide thinâ€film transistor. Journal of Information Display, 2009, 10, 171-174.	4.0	24
92	Optical Band Gap and Hall Transport Characteristics of Lanthanide-Ion-Modified DNA Crystals. Journal of Physical Chemistry C, 2015, 119, 14443-14449.	3.1	24
93	Vertically Graded Oxygen Deficiency for Improving Electrical Characteristics and Stability of Indium Gallium Zinc Oxide Thin-Film Transistors. ACS Applied Materials & Interfaces, 2021, 13, 4110-4116.	8.0	24
94	Improvement of Negative Bias Temperature Illumination Stability of Amorphous IGZO Thin-Film Transistors by Water Vapor-Assisted High-Pressure Oxygen Annealing. ECS Journal of Solid State Science and Technology, 2014, 3, Q95-Q98.	1.8	23
95	Facile fabrication of wire-type indium gallium zinc oxide thin-film transistors applicable to ultrasensitive flexible sensors. Scientific Reports, 2018, 8, 5546.	3.3	23
96	A selectively processible instant glue passivation layer for indium gallium zinc oxide thin-film transistors fabricated at low temperature. Journal of Materials Chemistry C, 2018, 6, 6187-6193.	5.5	23
97	Biocompatible and Biodegradable Neuromorphic Device Based on Hyaluronic Acid for Implantable Bioelectronics. Advanced Functional Materials, 2021, 31, 2107074.	14.9	23
98	The formation of InZnO lattices incorporating Ba for thin-film transistors using a solution process. Journal of Crystal Growth, 2011, 326, 163-165.	1.5	22
99	Fast and Stable Solution-Processed Transparent Oxide Thin-Film Transistor Circuits. IEEE Electron Device Letters, 2011, 32, 524-526.	3.9	22
100	The self-activated radical doping effects on the catalyzed surface of amorphous metal oxide films. Scientific Reports, 2017, 7, 12469.	3.3	22
101	Enhancement of Switching Characteristic for p-Type Oxide Semiconductors Using Hypochlorous Acid. ACS Applied Materials & Interfaces, 2018, 10, 32337-32343.	8.0	22
102	Multifunctional Oxygen Scavenger Layer for High-Performance Oxide Thin-Film Transistors with Low-Temperature Processing. ACS Applied Materials & Interfaces, 2021, 13, 31816-31824.	8.0	22
103	Recovery properties of hydrogen gas sensor with Pd/titanate and Pt/titanate nanotubes photo-catalyst by UV radiation from catalytic poisoning of H2S. Current Applied Physics, 2009, 9, 172-178.	2.4	21
104	Effect of oxygen pressure of SiOx buffer layer on the electrical properties of GZO film deposited on PET substrate. Thin Solid Films, 2009, 517, 6414-6417.	1.8	21
105	Effects of highâ€pressure H₂Oâ€annealing on amorphous IGZO thinâ€film transistors. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2231-2234.	1.8	21
106	Low-temperature activation under 150Â°C for amorphous IGZO TFTs using voltage bias. Journal of Information Display, 2017, 18, 131-135.	4.0	21
107	Investigation of solution-processed amorphous SrInZnO thin film transistors. Journal of Crystal Growth, 2011, 326, 171-174.	1.5	20
108	Electric Field-aided Selective Activation for Indium-Gallium-Zinc-Oxide Thin Film Transistors. Scientific Reports, 2016, 6, 35044.	3.3	20

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109	Analysis of Recoverable Residual Image Characteristics of Flexible Organic Light-Emitting Diode Displays Using Polyimide Substrates. IEEE Electron Device Letters, 2019, 40, 1108-1111.	3.9	20
110	Thin film transistors by solution-based indium gallium zinc oxide/carbon nanotubes blend. Thin Solid Films, 2009, 517, 4011-4014.	1.8	19
111	Plasma Polymerization Enabled Polymer/Metalâ€“Oxide Hybrid Semiconductors for Wearable Electronics. ACS Applied Materials & Interfaces, 2018, 10, 37207-37215.	8.0	19
112	Fabrication of indium gallium zinc oxide phototransistors via oxide-mesh insertion for visible light detection. Journal of Materials Chemistry C, 2020, 8, 165-172.	5.5	19
113	Simultaneously Defined Semiconducting Channel Layer Using Electrohydrodynamic Jet Printing of a Passivation Layer for Oxide Thin-Film Transistors. ACS Applied Materials & Interfaces, 2020, 12, 39705-39712.	8.0	19
114	Flexible Artificial Synapses with a Biocompatible Maltoseâ€“Ascorbic Acid Electrolyte Gate for Neuromorphic Computing. ACS Applied Materials & Interfaces, 2021, 13, 34597-34604.	8.0	19
115	Electrical and optical properties of Ga doped zinc oxide thin films deposited at room temperature by continuous composition spread. Applied Surface Science, 2010, 256, 6219-6223.	6.1	18
116	Accelerated Formation of Metal Oxide Thin Film at 200 Â°C Using Oxygen Supplied by a Nitric Acid Additive and Residual Organic Suction Vacuum Annealing for Thin-Film Transistor Applications. ACS Applied Materials & Interfaces, 2013, 5, 9051-9056.	8.0	18
117	Sn doping in thermoelectric Bi2Te3 films by metal-organic chemical vapor deposition. Applied Surface Science, 2015, 353, 232-237.	6.1	18
118	Mechanochemical and Thermal Treatment for Surface Functionalization to Reduce the Activation Temperature of In-Ga-Zn-O Thin-film Transistors. ACS Applied Materials & Interfaces, 2020, 12, 19123-19129.	8.0	18
119	Indium zinc oxide ohmic contact to poly(3,4-ethylenedioxythiophene) poly(styrenesulfonate) induced by UV light. Organic Electronics, 2009, 10, 785-790.	2.6	17
120	Improvement in stability of poly(3-hexylthiophene-2,5-diyl)/[6,6]-phenyl-C61-butyric acid methyl ester bulk heterojunction solar cell by using UV light irradiation. Solar Energy Materials and Solar Cells, 2011, 95, 1037-1041.	6.2	17
121	The effect of various solvents on the back channel of solution-processed Inâ€“Gaâ€“Znâ€“O thin-film transistors intended for biosensor applications. Journal Physics D: Applied Physics, 2013, 46, 035102.	2.8	17
122	All-sputtered oxide thin-film transistors fabricated at 150 Â°C using simultaneous ultraviolet and thermal treatment. Journal of Materials Chemistry C, 2018, 6, 249-256.	5.5	17
123	InGaZnO thinâ€film transistors with YHfZnO gate insulator by solution process. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 1668-1671.	1.8	16
124	Annealing temperature dependence on the positive bias stability of IGZO thin-film transistors. Journal of Information Display, 2011, 12, 209-212.	4.0	16
125	Carrier-Suppressing Effect of Mg in Solution-Processed Zn-Sn-O Thin-Film Transistors. Electrochemical and Solid-State Letters, 2012, 15, H78.	2.2	16
126	The effect of a zincâ€“tin-oxide layer used as an etch-stopper layer on the bias stress stability of solution-processed indiumâ€“galliumâ€“zinc-oxide thin-film transistors. Journal Physics D: Applied Physics, 2014, 47, 385104.	2.8	16

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127	Skin-conformable photoplethysmogram sensors for energy-efficient always-on cardiovascular monitoring systems. Nano Energy, 2022, 92, 106773.	16.0	16
128	Low-thermal-budget (300â€‰Â°C) ferroelectric TiN/Hf0.5Zr0.5O2/TiN capacitors realized using high-pressure annealing. Applied Physics Letters, 2021, 119, .	3.3	16
129	Junction Temperature Measurement of InAs Quantum-Dot Laser Diodes by Utilizing Voltageâ€“Temperature Method. IEEE Photonics Technology Letters, 2008, 20, 1354-1356.	2.5	15
130	Influence of thermal parameter on solution-processed Zr-doped ZTO thin-film transistors. Current Applied Physics, 2011, 11, S258-S261.	2.4	15
131	Influence of substrate temperature on the electrical and optical properties of Ga-doped ZnO thin films fabricated by continuous composition spread. Ceramics International, 2012, 38, S605-S608.	4.8	15
132	Effects of structural modification via high-pressure annealing on solution-processed InGaO films and thin-film transistors. Journal Physics D: Applied Physics, 2016, 49, 075112.	2.8	15
133	Structural Engineering of Metal-Mesh Structure Applicable for Transparent Electrodes Fabricated by Self-Formable Cracked Template. Nanomaterials, 2017, 7, 214.	4.1	15
134	Effect of Static and Rotating Magnetic Fields on Low-Temperature Fabrication of InGaZnO Thin-Film Transistors. ACS Applied Materials & Interfaces, 2018, 10, 16613-16622.	8.0	15
135	Hydrogen Barriers Based on Chemical Trapping Using Chemically Modulated Al₂O₃ Grown by Atomic Layer Deposition for InGaZnO Thin-Film Transistors. ACS Applied Materials & Interfaces, 2021, 13, 20349-20360.	8.0	15
136	Growth of Transparent nc-InGaO[sub 3](ZnO)[sub 2] Thin Films with Indium mol Ratios Using Solution Process. Journal of the Electrochemical Society, 2008, 155, H848.	2.9	14
137	Crystallization of amorphous Si thin films by the reaction of MoO3/Al nanoengineered thermite. Thin Solid Films, 2010, 518, 6205-6209.	1.8	14
138	Enhancement of Initial Growth of ZnO Films on Layer-Structured Bi₂Te₃ by Atomic Layer Deposition. Chemistry of Materials, 2014, 26, 6448-6453.	6.7	14
139	Silicon Cations Intermixed Indium Zinc Oxide Interface for High-Performance Thin-Film Transistors Using a Solution Process. ACS Applied Materials & Interfaces, 2017, 9, 29849-29856.	8.0	14
140	Metalorganic Chemical Vapor Deposition of CdTe(133) Epilayers on Si(211) Substrates. Journal of Electronic Materials, 2010, 39, 863-867.	2.2	13
141	Effect of Hf incorporation in solution-processed NiOx based resistive random access memory. Applied Physics Letters, 2014, 104, 093508.	3.3	13
142	Fabrication of high performance thin-film transistors via pressure-induced nucleation. Scientific Reports, 2014, 4, 6858.	3.3	13
143	Influence of Annealing on Solution-Processed Indium Oxide Thin-Film Transistors Under Ambient Air and Wet Conditions. IEEE Transactions on Electron Devices, 2016, 63, 3558-3561.	3.0	13
144	High-Throughput Open-Air Plasma Activation of Metal-Oxide Thin Films with Low Thermal Budget. ACS Applied Materials & Interfaces, 2018, 10, 37223-37232.	8.0	13

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145	Confronting Racism in Chemistry Journals. ACS Applied Materials & Interfaces, 2020, 12, 28925-28927.	8.0	13
146	Combined effect of the large ionic radius and low electronegativity of lanthanum additive on solution-processed zincâ€“tinâ€“oxide thin-film transistors. Thin Solid Films, 2013, 536, 291-294.	1.8	12
147	Origin of electrical improvement of amorphous TaInZnO TFT by oxygen thermo-pressure-induced process. Journal Physics D: Applied Physics, 2014, 47, 105104.	2.8	12
148	Hall transport of divalent metal ion modified DNA lattices. Applied Physics Letters, 2015, 106, 263702.	3.3	12
149	Glucose-based resistive random access memory for transient electronics. Journal of Information Display, 2019, 20, 231-237.	4.0	12
150	Modulation of the Al/Cu₂O Schottky Barrier Height for p-Type Oxide TFTs Using a Polyethylenimine Interlayer. ACS Applied Materials & Interfaces, 2021, 13, 31077-31085.	8.0	12
151	A Facile Method Based on Oxide Semiconductor Reduction for Controlling the Photoresponse Characteristic of Flexible and Transparent Optoelectronic Devices. Advanced Optical Materials, 2021, 9, 2100725.	7.3	12
152	Simultaneous engineering of the interface and bulk layer of Al/sol-NiOx/Si structured resistive random access memory devices. Journal of Materials Chemistry C, 2014, 2, 6148-6154.	5.5	11
153	Homojunction Solution-Processed Metal Oxide Thin-Film Transistors Using Passivation-Induced Channel Definition. ACS Applied Materials & Interfaces, 2014, 6, 4819-4822.	8.0	11
154	Flexible carbon nanofiber electrodes for a lead zirconate titanate nanogenerator. RSC Advances, 2016, 6, 64441-64445.	3.6	11
155	Novel Method for Fabricating Visible-Light Phototransistors Based on a Homojunction-Porous IGZO Thin Film Using Mechano-Chemical Treatment. ACS Applied Materials & Interfaces, 2021, 13, 35981-35989.	8.0	11
156	A multi-channel structure to enhance the performance of a sequential lateral solidification thin-film transistor. Applied Physics Letters, 2010, 97, 202103.	3.3	10
157	Study on the Effects of Zr-Incorporated InZnO Thin-Film Transistors Using a Solution Process. Japanese Journal of Applied Physics, 2011, 50, 070202.	1.5	10
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