# Sigurd Wagner

### List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

164 papers

6,883 citations

44 h-index 81 g-index

178 ext. papers

7,384 ext. citations

3.9 avg, IF

5.65 L-index

#	Paper	IF	Citations
164	Stretchable gold conductors on elastomeric substrates. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 2404-2406	3.4	733
163	Materials for stretchable electronics. MRS Bulletin, 2012, 37, 207-213	3.2	351
162	CulnSe2/CdS heterojunction photovoltaic detectors. <i>Applied Physics Letters</i> , <b>1974</b> , 25, 434-435	3.4	327
161	Mechanisms of reversible stretchability of thin metal films on elastomeric substrates. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 204103	3.4	319
160	Electronic skin: architecture and components. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2004</b> , 25, 326-334	3	256
159	Stretchability of thin metal films on elastomer substrates. <i>Applied Physics Letters</i> , <b>2004</b> , 85, 3435-3437	3.4	249
158	Efficient CuinSe2/CdS solar cells. <i>Applied Physics Letters</i> , <b>1975</b> , 27, 89-90	3.4	242
157	Flexible ferroelectret field-effect transistor for large-area sensor skins and microphones. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 073501	3.4	159
156	Flexible active-matrix cells with selectively poled bifunctional polymer-ceramic nanocomposite for pressure and temperature sensing skin. <i>Journal of Applied Physics</i> , <b>2009</b> , 106, 034503	2.5	157
155	Analysis of the electrical and luminescent properties of CuInSe2. <i>Journal of Applied Physics</i> , <b>1975</b> , 46, 1777-1782	2.5	145
154	Microfluidic actuation by modulation of surface stresses. <i>Applied Physics Letters</i> , <b>2003</b> , 82, 657-659	3.4	141
153	Compliant thin film patterns of stiff materials as platforms for stretchable electronics. <i>Journal of Materials Research</i> , <b>2005</b> , 20, 3274-3277	2.5	140
152	Stretchable wavy metal interconnects. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2004</b> , 22, 1723-1725	2.9	133
151	Selective dip-coating of chemically micropatterned surfaces. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 5119-	5 <b>1</b> 2 <sub>5</sub> 6	126
150	Mechanics of thin-film transistors and solar cells on flexible substrates. <i>Solar Energy</i> , <b>2006</b> , 80, 687-693	6.8	113
149	Capacitive sensing of droplets for microfluidic devices based on thermocapillary actuation. <i>Lab on A Chip</i> , <b>2004</b> , 4, 473-80	7.2	109
148	Morphology of liquid microstructures on chemically patterned surfaces. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 7768-7775	2.5	106

#### (1983-2005)

147	Effect of contact angle hysteresis on thermocapillary droplet actuation. <i>Journal of Applied Physics</i> , <b>2005</b> , 97, 014906	2.5	105	
146	Stiff subcircuit islands of diamondlike carbon for stretchable electronics. <i>Journal of Applied Physics</i> , <b>2006</b> , 100, 014913	2.5	99	
145	Titanium dioxide/silicon hole-blocking selective contact to enable double-heterojunction crystalline silicon-based solar cell. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 123906	3.4	98	
144	plhP/nldS solar cells and photovoltaic detectors. <i>Applied Physics Letters</i> , <b>1975</b> , 26, 229-230	3.4	98	
143	Elastically tunable self-organized organic lasers. Advanced Materials, 2011, 23, 869-72	24	94	
142	Controlling the morphology of gold films on poly(dimethylsiloxane). <i>ACS Applied Materials &amp; amp; Interfaces</i> , <b>2010</b> , 2, 1927-33	9.5	91	
141	Silicon for thin-film transistors. <i>Thin Solid Films</i> , <b>2003</b> , 430, 15-19	2.2	86	
140	Multicomponent tetrahedral compounds for solar cells. <i>Journal of Crystal Growth</i> , <b>1977</b> , 39, 151-159	1.6	85	
139	Hole and electron field-effect mobilities in nanocrystalline silicon deposited at 150 °C. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 440-442	3.4	83	
138	Using convective flow splitting for the direct printing of fine copper lines. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 2063-2065	3.4	82	
137	Green electroluminescence from CdStuGaS2 heterodiodes. <i>Applied Physics Letters</i> , <b>1973</b> , 22, 351-353	3.4	77	
136	A single-layer permeation barrier for organic light-emitting displays. <i>Applied Physics Letters</i> , <b>2008</b> , 92, 103309	3.4	69	
135	Diffusion of Boron from Shallow Ion Implants in Silicon. <i>Journal of the Electrochemical Society</i> , <b>1972</b> , 119, 1570	3.9	66	
134	Heterojunction band discontinuities. <i>Applied Physics Letters</i> , <b>1976</b> , 28, 31-33	3.4	65	
133	Low-Temperature Synthesis of a TiO2/Si Heterojunction. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 14842-5	16.4	59	
132	ELECTROTEXTILES: CONCEPTS AND CHALLENGES. <i>International Journal of High Speed Electronics and Systems</i> , <b>2002</b> , 12, 391-399	0.5	59	
131	Inverter made of complementary p and n channel transistors using a single directly deposited microcrystalline silicon film. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 1125-1127	3.4	59	
130	Temperature-dependent nuclear magnetic resonance in CuInX2 (X=S,Se,Te) chalcopyrite-structure compounds. <i>Physical Review B</i> , <b>1983</b> , 27, 5240-5249	3.3	59	

129	Monitoring hippocampus electrical activity in vitro on an elastically deformable microelectrode array. <i>Journal of Neurotrauma</i> , <b>2009</b> , 26, 1135-45	5.4	57
128	Highly stable amorphous-silicon thin-film transistors on clear plastic. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 032103	3.4	57
127	Amorphous-Silicon Thin-Film Transistors Fabricated at 300 \$^{circ}hbox{C}\$ on a Free-Standing Foil Substrate of Clear Plastic. <i>IEEE Electron Device Letters</i> , <b>2007</b> , 28, 1004-1006	4.4	53
126	A comprehensive defect model for amorphous silicon. <i>Journal of Applied Physics</i> , <b>1992</b> , 72, 2857-2872	2.5	53
125	High electron mobility polycrystalline silicon thin-film transistors on steel foil substrates. <i>Applied Physics Letters</i> , <b>1999</b> , 75, 2244-2246	3.4	52
124	Ultraflexible amorphous silicon transistors made with a resilient insulator. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 042111	3.4	51
123	Preparation and properties of green-light-emitting CdStuGaS2 heterodiodes. <i>Journal of Applied Physics</i> , <b>1974</b> , 45, 246-251	2.5	51
122	Physical mechanisms governing pattern fidelity in microscale offset printing. <i>Journal of Applied Physics</i> , <b>2001</b> , 90, 3602-3609	2.5	50
121	Micromechanics of macroelectronics. Particuology: Science and Technology of Particles, 2005, 3, 321-328	3	44
120	Overview of Flexible Electronics Technology. <i>Kluwer International Series in Electronic Materials:</i> Science and Technology, <b>2009</b> , 1-28		40
119	Encapsulating Elastically Stretchable Neural Interfaces: Yield, Resolution, and Recording/Stimulation of Neural Activity. <i>Advanced Functional Materials</i> , <b>2012</b> , 22, 640-651	15.6	39
118	Amorphous silicon transistors on ultrathin steel foil substrates. <i>Applied Physics Letters</i> , <b>1999</b> , 74, 2661-2	2662	39
117	Isotropically stretchable gold conductors on elastomeric substrates. Soft Matter, 2011, 7, 7177	3.6	38
116	Evolution of nanocrystalline silicon thin film transistor channel layers. <i>Journal of Non-Crystalline Solids</i> , <b>2004</b> , 338-340, 720-724	3.9	38
115	Mechanics of TFT Technology on Flexible Substrates <b>2005</b> , 263-283		38
114	Enabling Scalable Hybrid Systems: Architectures for Exploiting Large-Area Electronics in Applications. <i>Proceedings of the IEEE</i> , <b>2015</b> , 103, 690-712	14.3	36
113	Motion of p-n junctions in CuInSe2. <i>Applied Physics Letters</i> , <b>1976</b> , 28, 454-455	3.4	35
112	Preparation and properties of InP/CdS solar cells. <i>Journal of Applied Physics</i> , <b>1976</b> , 47, 614-618	2.5	35

#### [1977-2009]

111	Amorphous silicon thin-film transistors with field-effect mobilities of 2 cm2/V s for electrons and 0.1 cm2/V s for holes. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 162105	3.4	30	
110	Reliability of Active-Matrix Organic Light-Emitting-Diode Arrays With Amorphous Silicon Thin-Film Transistor Backplanes on Clear Plastic. <i>IEEE Electron Device Letters</i> , <b>2008</b> , 29, 63-66	4.4	28	
109	Innovation highway: Breakthrough milestones and key developments in chalcopyrite photovoltaics from a retrospective viewpoint. <i>Thin Solid Films</i> , <b>2017</b> , 633, 2-12	2.2	26	
108	Tradeoff regimes of lifetime in amorphous silicon thin-film transistors and a universal lifetime comparison framework. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 143504	3.4	26	
107	Modeling the electrical resistance of gold film conductors on uniaxially stretched elastomeric substrates. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 212112	3.4	26	
106	Fast growth of hydrogenated amorphous silicon from dichlorosilane. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 1940-1942	3.4	25	
105	Topographies of plasma-hardened surfaces of poly(dimethylsiloxane). <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 093522	2.5	23	
104	Thermomechanical criteria for overlay alignment in flexible thin-film electronic circuits. <i>Applied Physics Letters</i> , <b>2006</b> , 88, 011905	3.4	22	
103	Alterations in Hippocampal Network Activity after In Vitro Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , <b>2015</b> , 32, 1011-9	5.4	21	
102	Direct printing of polymer microstructures on flat and spherical surfaces using a letterpress technique. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2002</b> , 20, 2320		21	
101	Chemistry and preparation of InP/CdS solar cells. <i>Journal of Crystal Growth</i> , <b>1977</b> , 39, 128-136	1.6	20	
100	Large-Area Resistive Strain Sensing Sheet for Structural Health Monitoring. Sensors, 2020, 20,	3.8	18	
99	Amorphous silicon: Vehicle and test bed for large-area electronics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2010</b> , 207, 501-509	1.6	18	
98	Generation of high-resolution surface temperature distributions. <i>Journal of Applied Physics</i> , <b>2002</b> , 91, 5686-5693	2.5	18	
97	. IEEE Transactions on Electron Devices, <b>2010</b> , 57, 2381-2389	2.9	17	
96	Effect of \$hbox{SiN}_{x}\$ Gate Dielectric Deposition Power and Temperature on a-Si:H TFT Stability. <i>IEEE Electron Device Letters</i> , <b>2007</b> , 28, 606-608	4.4	17	
95	Microfluidic detection and analysis by integration of thermocapillary actuation with a thin-film optical waveguide. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 184101	3.4	17	
94	n-CdS/n-GaAs voltage-enhanced photoanode. <i>Applied Physics Letters</i> , <b>1977</b> , 31, 446-447	3.4	17	

93	Thin-film circuits for scalable interfacing between large-area electronics and CMOS ICs 2014,		16
92	Plastic Deformation of Thin Foil Substrates with Amorphous Silicon Islands into Spherical Shapes. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 621, 861		15
91	Diffusion of atmospheric gases into barrier-layer sealed organic light emitting diodes. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 203306	3.4	14
90	High hole and electron field effect mobilities in nanocrystalline silicon deposited at 150 °C. <i>Thin Solid Films</i> , <b>2003</b> , 427, 56-59	2.2	13
89	. Journal of Display Technology, <b>2007</b> , 3, 304-308		12
88	Incorporation of a light and carrier collection management nano-element array into superstrate a-Si:H solar cells. <i>Applied Physics Letters</i> , <b>2011</b> , 99, 073113	3.4	11
87	Fabricating Metal Interconnects for Circuits on a Spherical Dome. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, G259	3.9	11
86	Super-elastic Gold Conductors on Elastomeric Substrates. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 769, 1031		11
85	Amorphous silicon thin-film transistors with DC saturation current half-life of more than 100 years <b>2008</b> ,		10
84	Integrating and Interfacing Flexible Electronics in Hybrid Large-Area Systems. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology,</i> <b>2015</b> , 5, 1219-1229	1.7	9
83	Nonvolatile Amorphous-Silicon Thin-Film-Transistor Memory Structure for Drain-Voltage Independent Saturation Current. <i>IEEE Transactions on Electron Devices</i> , <b>2011</b> , 58, 2924-2927	2.9	9
82	2012,		9
81	. IEEE Transactions on Electron Devices, <b>2008</b> , 55, 973-977	2.9	9
80	Impact of bending on flexible metal oxide TFTs and oscillator circuits. <i>Journal of the Society for Information Display</i> , <b>2016</b> , 24, 371-380	2.1	9
79	Top-Gate Amorphous Silicon TFT With Self-Aligned Silicide Source/Drain and High Mobility. <i>IEEE Electron Device Letters</i> , <b>2008</b> , 29, 737-739	4.4	8
78	A Method for Making Elastic Metal Interconnects. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 769, 6121		8
77	The Distribution of Occupied Deep Levels in a-Si:H Determined from CPM Spectra. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 219, 611		8
76	18-2: Oxide TFT LC Oscillators on Glass and Plastic for Wireless Functions in Large-Area Flexible Electronic Systems. <i>Digest of Technical Papers SID International Symposium</i> , <b>2016</b> , 47, 207-210	0.5	7

## (2011-2009)

75	A New Gate Dielectric for Highly Stable Amorphous-Silicon Thin-Film Transistors With \$sim!! hbox{1.5-cm}^{2}/hbox{V} cdot hbox{s}\$ Electron Field-Effect Mobility. <i>IEEE Electron Device Letters</i> , <b>2009</b> , 30, 502-504	4.4	7	
74	Stretchable microelectrode arraysa tool for discovering mechanisms of functional deficits underlying traumatic brain injury and interfacing neurons with neuroprosthetics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , <b>2006</b> , Suppl, 6732-5		7	
73	How Stretchable Can We Make Thin Metal Films?. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 875, 1		7	
72	Effects of Deposition Temperature and Film Thickness on the Structural, Electrical, and Optical Properties of Germanium Thin Films. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 715, 1821		7	
71	Amorphous Silicon Thin Film Transistors on Kapton Fibers. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 736, 1		7	
70	Deformable interconnects for conformal integrated circuits. <i>Materials Research Society Symposia Proceedings</i> , <b>2002</b> , 736, 1		7	
69	Epitaxy in solar cells. <i>Journal of Crystal Growth</i> , <b>1975</b> , 31, 113-121	1.6	7	
68	Thin-film semiconductors <b>E</b> rom exploration to application. <i>MRS Bulletin</i> , <b>2018</b> , 43, 617-624	3.2	6	
67	Hybrid Amorphous/Nanocrystalline Silicon Schottky Diodes for High Frequency Rectification. <i>IEEE Electron Device Letters</i> , <b>2014</b> , 35, 425-427	4.4	6	
66	Stability of Amorphous Silicon Thin Film Transistors under Prolonged High Compressive Strain. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 989, 4		6	
65	Stretchable conductors: thin gold films on silicone elastomer. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 795, 415		6	
64	Photoresist-free printing of amorphous silicon thin-film transistors. <i>Applied Physics Letters</i> , <b>2003</b> , 83, 3207-3209	3.4	6	
63	Thin Film Transistors Made of Polysilicon Crystallized at 950°C on Steel Substrate. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 609, 2851		6	
62	The effect of chlorine on dopant activation in hydrogenated amorphous silicon. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 2949-2951	3.4	6	
61	Kinetics of Growth and Recovery of Light-Induced Defects Under High-Intensity Illumination. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 258, 473		6	
60	Wireless biomechanical power harvesting via flexible magnetostrictive ribbons. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2243	35.4	5	
59	A System Based on Capacitive Interfacing of CMOS With Post-Processed Thin-Film MEMS Resonators Employing Synchronous Readout for Parasitic Nulling. <i>IEEE Journal of Solid-State Circuits</i> , <b>2015</b> , 50, 1002-1015	5.5	5	
58	Self-Aligned Top-Gate Coplanar a-Si:H Thin-Film Transistors With a \$hbox{SiO}_{2}\$Bilicone Hybrid Gate Dielectric. <i>IEEE Electron Device Letters</i> , <b>2011</b> , 32, 36-38	4.4	5	

57	ELASTOMERIC INTERCONNECTS. <i>International Journal of High Speed Electronics and Systems</i> , <b>2006</b> , 16, 397-407	0.5	5
56	P-24: High-Temperature (250°LC) Amorphous-Silicon TFT® On Clear Plastic Substrates. <i>Digest of Technical Papers SID International Symposium</i> , <b>2005</b> , 36, 313	0.5	5
55	Thermal oxide of polycrystalline silicon on steel foil as a thin-film transistor gate dielectric. <i>Applied Physics Letters</i> , <b>2001</b> , 78, 3729-3731	3.4	5
54	High Electron Mobility TFTs of Nanocrystalline Silicon Deposited at 150°bC on Plastic Foil. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 664, 2611		5
53	Large-Area Electronics HF RFID Reader Array for Object-Detecting Smart Surfaces. <i>IEEE Solid-State Circuits Letters</i> , <b>2018</b> , 1, 182-185	2	5
52	Self-aligned ZnO thin-film transistors with 860 MHz fT and 2 GHz fmax for large-area applications <b>2017</b> ,		4
51	Electrical Properties of Phosphorus-Doped and Boron-Doped Nanocrystalline Germanium Thin-Films for p-i-n Devices. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 762, 571		4
50	An Inverter Woven from Flat Component Fibers for e-Textile Applications. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 769, 9101		4
49	Thermocapillary Actuation of Liquids Using Patterned Microheater Arrays. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 773, 1031		4
48	Monolithically Integrated p- & n- Channel Thin Film Transistors of Nanocrystalline Silicon on Plastic Substrates. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 808, 281		4
47	Amorphous silicon crystallization and polysilicon thin film transistors on SiO2 passivated steel foil substrates. <i>Applied Surface Science</i> , <b>2001</b> , 175-176, 753-758	6.7	4
46	Mechanical Theory of the Film-on-Substrate-Foil Structure: Curvature and Overlay Alignment in Amorphous Silicon Thin-Film Devices Fabricated on Free-Standing Foil Substrates. <i>Kluwer International Series in Electronic Materials: Science and Technology</i> , <b>2009</b> , 29-51		4
45	Current gain of amorphous silicon thin-film transistors above the cutoff frequency 2014,		3
44	65.1: Invited Paper: Amorphous Silicon TFT@ with 100-Year Lifetimes in a Clear Plastic Compatible Process for AMOLEDs. <i>Digest of Technical Papers SID International Symposium</i> , <b>2009</b> , 40, 979	0.5	3
43	Thin Film Transistors with Electron Mobility of 40 cm2VIsI Made from Directly Deposited Intrinsic Microcrystalline Silicon. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 609, 3121		3
42	Electroluminescent p-InP/n-CdS heterodiodes. <i>Applied Physics Letters</i> , <b>1976</b> , 29, 431-432	3.4	3
41	Stretchable Neural Interfaces <b>2012</b> , 379-399		2
40	Neural sensing of electrical activity with stretchable microelectrode arrays. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2009</b> , 2009, 4210-3	0.9	2

39	SiNx barrier layers deposited at 250°C on a clear polymer substrate. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 936, 1		2
38	Stretchable Dielectric Material for Conformable Bioelectronic Devices. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 926, 1		2
37	Material Characterisation of a Novel Permeation Barrier for Flexible Organic Displays. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1007, 1		2
36	64.3: Amorphous Silicon Thin-Film Transistor Backplane on Stainless Steel Foil Substrates for AMOLEDs. <i>Digest of Technical Papers SID International Symposium</i> , <b>2006</b> , 37, 1862	0.5	2
35	Structural Evolution of Nanocrystalline Germanium Thin Films with Film Thickness and Substrate Temperature. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 762, 651		2
34	Hydrogen in Ultralow Temperature SiO2 for Nanocrystalline Silicon Thin Film Transistors. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 814, 30		2
33	Spatially selective single-grain silicon films induced by hydrogen plasma seeding. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2002</b> , 20, 818		2
32	Offset Printing of Liquid Microstructures for High Resolution Lithography. <i>Materials Research Society Symposia Proceedings</i> , <b>2000</b> , 624, 47		2
31	P-channel Polycrystalline Silicon Thin Film Transistors on Steel Foil Substrates. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 664, 1721		2
30	Nanocrystalline Silicon TFTs With 50 nm Thick Deposited Channel Layer, 10 cm2/Vs Electron Mobility and 108 On/Off Current Ratio. <i>Materials Research Society Symposia Proceedings</i> , <b>2001</b> , 664, 175	1	2
29	Physico-Chemical Problems in Photovoltaic Research. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , <b>1980</b> , 84, 991-995		2
28	A symmetrical stretching stage for electrical atomic force microscopy. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2016</b> , 87, 185-188	4.6	2
27	10.3: Predicting the Lifetime of Flexible Permeation Barrier Layers for OLED Displays. <i>Digest of Technical Papers SID International Symposium</i> , <b>2014</b> , 45, 111-113	0.5	1
26	Amorphous silicon floating-gate thin film transistor <b>2009</b> ,		1
25	PbTiO3/P(VDF-TrFE) nanocomposites for flexible skin <b>2008</b> ,		1
24	Self-aligned Amorphous Silicon Thin Film Transistors with Mobility above 1 cm2V <b>1</b> s <b>1</b> fabricated at 300°C on Clear Plastic Substrates. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1066, 1		1
23	Analytical Model of Apparent Threshold Voltage Lowering Induced by Contact Resistance in Amorphous Silicon Thin Film Transistors. <i>Device Research Conference, IEEE Annual</i> , <b>2007</b> ,		1
22	Advances in Encapsulating Elastically Stretchable Microelectrode Arrays. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 1009, 1		1

21	Self-Aligned Nanocrystalline Silicon Thin-Film Transistor With Deposited n+ Source/Drain Layer. <i>Materials Research Society Symposia Proceedings</i> , <b>2007</b> , 989, 2		1
20	Evolution of Nanocrystalline Silicon Layers Deposited at 150°C for Thin Film Transistor Channels. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 769, 681		1
19	Island Edge Coverage By Metal Interconnects for Three Dimensional Circuits. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 769, 1051		1
18	Stretchability of complex patterns of thin metal conductors on elastomeric skin. <i>Materials Research Society Symposia Proceedings</i> , <b>2004</b> , 854, U12.10.1		1
17	Polycrystalline Silicon Thin-Film Transistors on Flexible Steel Foil Substrates for Complementary-Metal-Oxide-Silicon Technology. <i>Solid State Phenomena</i> , <b>2003</b> , 93, 3-12	0.4	1
16	EPITAXY IN SOLAR CELLS <b>1975</b> , 113-121		1
15	Observation of [VCu1Ihi2+VCu1IDefect Triplets in Cu-Deficient CuInS2. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 26415-26427	3.8	1
14	Detecting, localizing, and quantifying damage using two-dimensional sensing sheet: lab test and field application. <i>Journal of Civil Structural Health Monitoring</i> , <b>2021</b> , 11, 1055-1075	2.9	1
13	Al/TiO2/p-Si heterojunction as an ideal minority carrier electron injector for silicon photovoltaics <b>2016</b> ,		1
12	Effects of Mechanical Strain on the Electrical Performance of Amorphous Silicon Thin-Film Transistors with a New Gate Dielectric. <i>Materials Research Society Symposia Proceedings</i> , <b>2009</b> , 1196, 8		
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