

Sigurd Wagner

List of Publications by Year in Descending Order

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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	Detecting, localizing, and quantifying damage using two-dimensional sensing sheet: lab test and field application. <i>Journal of Civil Structural Health Monitoring</i> , 2021 , 11, 1055-1075	2.9	1
163	41.2: Invited Paper: Flexible Silicon-oxide-like Thin Film Encapsulation Enabled by PECVD growth at Room Temperature. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 280-281	0.5	
162	Large-Area Resistive Strain Sensing Sheet for Structural Health Monitoring. <i>Sensors</i> , 2020 , 20,	3.8	18
161	Observation of [VCu1]hi2+VCu1 Defect Triplets in Cu-Deficient CuInS2. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 26415-26427	3.8	1
160	Thin-film semiconductors—from exploration to application. <i>MRS Bulletin</i> , 2018 , 43, 617-624	3.2	6
159	Large-Area Electronics HF RFID Reader Array for Object-Detecting Smart Surfaces. <i>IEEE Solid-State Circuits Letters</i> , 2018 , 1, 182-185	2	5
158	Innovation highway: Breakthrough milestones and key developments in chalcopyrite photovoltaics from a retrospective viewpoint. <i>Thin Solid Films</i> , 2017 , 633, 2-12	2.2	26
157	Self-aligned ZnO thin-film transistors with 860 MHz fT and 2 GHz fmax for large-area applications 2017 ,		4
156	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> , 2016 , 47, 207-210	0.5	7
155	Impact of bending on flexible metal oxide TFTs and oscillator circuits. <i>Journal of the Society for Information Display</i> , 2016 , 24, 371-380	2.1	9
154	Al/TiO2/p-Si heterojunction as an ideal minority carrier electron injector for silicon photovoltaics 2016 ,		1
153	A symmetrical stretching stage for electrical atomic force microscopy. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016 , 87, 185-188	4.6	2
152	Titanium dioxide/silicon hole-blocking selective contact to enable double-heterojunction crystalline silicon-based solar cell. <i>Applied Physics Letters</i> , 2015 , 106, 123906	3.4	98
151	Low-Temperature Synthesis of a TiO2/Si Heterojunction. <i>Journal of the American Chemical Society</i> , 2015 , 137, 14842-5	16.4	59
150	Alterations in Hippocampal Network Activity after In Vitro Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2015 , 32, 1011-9	5.4	21
149	Enabling Scalable Hybrid Systems: Architectures for Exploiting Large-Area Electronics in Applications. <i>Proceedings of the IEEE</i> , 2015 , 103, 690-712	14.3	36
148	Integrating and Interfacing Flexible Electronics in Hybrid Large-Area Systems. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2015 , 5, 1219-1229	1.7	9

147	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> , 2015 , 50, 1002-1015	5.5	5
146	Hybrid Amorphous/Nanocrystalline Silicon Schottky Diodes for High Frequency Rectification. <i>IEEE Electron Device Letters</i> , 2014 , 35, 425-427	4.4	6
145	Thin-film circuits for scalable interfacing between large-area electronics and CMOS ICs 2014 ,		16
144	Wireless biomechanical power harvesting via flexible magnetostrictive ribbons. <i>Energy and Environmental Science</i> , 2014 , 7, 2243	35.4	5
143	Current gain of amorphous silicon thin-film transistors above the cutoff frequency 2014 ,		3
142	10.3: Predicting the Lifetime of Flexible Permeation Barrier Layers for OLED Displays. <i>Digest of Technical Papers SID International Symposium</i> , 2014 , 45, 111-113	0.5	1
141	Encapsulating Elastically Stretchable Neural Interfaces: Yield, Resolution, and Recording/Stimulation of Neural Activity. <i>Advanced Functional Materials</i> , 2012 , 22, 640-651	15.6	39
140	Stretchable Neural Interfaces 2012 , 379-399		2
139	Materials for stretchable electronics. <i>MRS Bulletin</i> , 2012 , 37, 207-213	3.2	351
138	2012 ,		9
137	Nonvolatile Amorphous-Silicon Thin-Film-Transistor Memory Structure for Drain-Voltage Independent Saturation Current. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 2924-2927	2.9	9
136	Elastically tunable self-organized organic lasers. <i>Advanced Materials</i> , 2011 , 23, 869-72	24	94
135	Incorporation of a light and carrier collection management nano-element array into superstrate a-Si:H solar cells. <i>Applied Physics Letters</i> , 2011 , 99, 073113	3.4	11
134	Self-Aligned Top-Gate Coplanar a-Si:H Thin-Film Transistors With a SiO_2 /Silicone Hybrid Gate Dielectric. <i>IEEE Electron Device Letters</i> , 2011 , 32, 36-38	4.4	5
133	Modeling the electrical resistance of gold film conductors on uniaxially stretched elastomeric substrates. <i>Applied Physics Letters</i> , 2011 , 98, 212112	3.4	26
132	Isotropically stretchable gold conductors on elastomeric substrates. <i>Soft Matter</i> , 2011 , 7, 7177	3.6	38
131	Controlling the morphology of gold films on poly(dimethylsiloxane). <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1927-33	9.5	91
130	Ultraflexible amorphous silicon transistors made with a resilient insulator. <i>Applied Physics Letters</i> , 2010 , 96, 042111	3.4	51

129	17.3: aSi:H Thinfilm Transistors with a New Hybrid Dielectric Highly Stable under Mechanical and Electrical Stress. <i>Digest of Technical Papers SID International Symposium</i> , 2010 , 41, 238	0.5	
128	Topographies of plasma-hardened surfaces of poly(dimethylsiloxane). <i>Journal of Applied Physics</i> , 2010 , 108, 093522	2.5	23
127	. <i>IEEE Transactions on Electron Devices</i> , 2010 , 57, 2381-2389	2.9	17
126	Amorphous silicon: Vehicle and test bed for large-area electronics. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 501-509	1.6	18
125	Amorphous silicon thin-film transistors with field-effect mobilities of 2 cm ² /V s for electrons and 0.1 cm ² /V s for holes. <i>Applied Physics Letters</i> , 2009 , 94, 162105	3.4	30
124	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> , 2009 , 2009, 4210-3	0.9	2
123	A New Gate Dielectric for Highly Stable Amorphous-Silicon Thin-Film Transistors With $\mu_{\text{eff}} \approx 1.5 \text{ cm}^2/\text{Vs}$ Electron Field-Effect Mobility. <i>IEEE Electron Device Letters</i> , 2009 , 30, 502-504	4.4	7
122	Monitoring hippocampus electrical activity in vitro on an elastically deformable microelectrode array. <i>Journal of Neurotrauma</i> , 2009 , 26, 1135-45	5.4	57
121	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> , 2009 , 1196, 8		
120	Overview of Flexible Electronics Technology. <i>Kluwer International Series in Electronic Materials: Science and Technology</i> , 2009 , 1-28		40
119	Tradeoff regimes of lifetime in amorphous silicon thin-film transistors and a universal lifetime comparison framework. <i>Applied Physics Letters</i> , 2009 , 95, 143504	3.4	26
118	Flexible active-matrix cells with selectively poled bifunctional polymer-ceramic nanocomposite for pressure and temperature sensing skin. <i>Journal of Applied Physics</i> , 2009 , 106, 034503	2.5	157
117	Amorphous silicon floating-gate thin film transistor 2009 ,		1
116	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> , 2009 , 40, 979	0.5	3
115	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> , 2009 , 29-51		4
114	. <i>IEEE Transactions on Electron Devices</i> , 2008 , 55, 973-977	2.9	9
113	PbTiO ₃ /P(VDF-TrFE) nanocomposites for flexible skin 2008 ,		1
112	Top-Gate Amorphous Silicon TFT With Self-Aligned Silicide Source/Drain and High Mobility. <i>IEEE Electron Device Letters</i> , 2008 , 29, 737-739	4.4	8

111	Amorphous silicon thin-film transistors with DC saturation current half-life of more than 100 years 2008,		10
110	Fracture Mechanisms of SiNx Thin-films on Compliant Substrates. <i>Materials Research Society Symposia Proceedings, 2008, 1078, 140201</i>		
109	Reliability of Active-Matrix Organic Light-Emitting-Diode Arrays With Amorphous Silicon Thin-Film Transistor Backplanes on Clear Plastic. <i>IEEE Electron Device Letters, 2008, 29, 63-66</i>	4-4	28
108	Self-aligned Amorphous Silicon Thin Film Transistors with Mobility above 1 cm ² V ⁻¹ s ⁻¹ fabricated at 300°C on Clear Plastic Substrates. <i>Materials Research Society Symposia Proceedings, 2008, 1066, 1</i>		1
107	A single-layer permeation barrier for organic light-emitting displays. <i>Applied Physics Letters, 2008, 92, 103309</i>	3-4	69
106	Diffusion of atmospheric gases into barrier-layer sealed organic light emitting diodes. <i>Applied Physics Letters, 2008, 93, 203306</i>	3-4	14
105	Highly stable amorphous-silicon thin-film transistors on clear plastic. <i>Applied Physics Letters, 2008, 93, 032103</i>	3-4	57
104	Effect of SiN_x Gate Dielectric Deposition Power and Temperature on a-Si:H TFT Stability. <i>IEEE Electron Device Letters, 2007, 28, 606-608</i>	4-4	17
103	Amorphous-Silicon Thin-Film Transistors Fabricated at 300 °C on a Free-Standing Foil Substrate of Clear Plastic. <i>IEEE Electron Device Letters, 2007, 28, 1004-1006</i>	4-4	53
102	Analytical Model of Apparent Threshold Voltage Lowering Induced by Contact Resistance in Amorphous Silicon Thin Film Transistors. <i>Device Research Conference, IEEE Annual, 2007,</i>		1
101	Morphology and Stretchability of Thin Film Metal Conductors on Elastomeric Substrates. <i>Materials Research Society Symposia Proceedings, 2007, 1009, 1</i>		
100	Stability of Amorphous Silicon Thin Film Transistors under Prolonged High Compressive Strain. <i>Materials Research Society Symposia Proceedings, 2007, 989, 4</i>		6
99	Material Characterisation of a Novel Permeation Barrier for Flexible Organic Displays. <i>Materials Research Society Symposia Proceedings, 2007, 1007, 1</i>		2
98	Advances in Encapsulating Elastically Stretchable Microelectrode Arrays. <i>Materials Research Society Symposia Proceedings, 2007, 1009, 1</i>		1
97	Self-Aligned Nanocrystalline Silicon Thin-Film Transistor With Deposited n+ Source/Drain Layer. <i>Materials Research Society Symposia Proceedings, 2007, 989, 2</i>		1
96	. <i>Journal of Display Technology, 2007, 3, 304-308</i>		12
95	ELASTOMERIC INTERCONNECTS. <i>International Journal of High Speed Electronics and Systems, 2006, 16, 397-407</i>	0.5	5
94	Monitoring of Traumatically Injured Organotypic Hippocampal Cultures with Stretchable Microelectrode Arrays. <i>Materials Research Society Symposia Proceedings, 2006, 926, 1</i>		

93	SiNx barrier layers deposited at 250°C on a clear polymer substrate. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 936, 1		2
92	Stretchable Dielectric Material for Conformable Bioelectronic Devices. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 926, 1		2
91	Fabricating Metal Interconnects for Circuits on a Spherical Dome. <i>Journal of the Electrochemical Society</i> , 2006 , 153, G259	3.9	11
90	Flexible ferroelectret field-effect transistor for large-area sensor skins and microphones. <i>Applied Physics Letters</i> , 2006 , 89, 073501	3.4	159
89	Thermomechanical criteria for overlay alignment in flexible thin-film electronic circuits. <i>Applied Physics Letters</i> , 2006 , 88, 011905	3.4	22
88	Mechanisms of reversible stretchability of thin metal films on elastomeric substrates. <i>Applied Physics Letters</i> , 2006 , 88, 204103	3.4	319
87	Stretchable microelectrode arrays—a 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> , 2006 , Suppl, 6732-5		7
86	Stiff subcircuit islands of diamondlike carbon for stretchable electronics. <i>Journal of Applied Physics</i> , 2006 , 100, 014913	2.5	99
85	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	0.5	2
84	Mechanics of thin-film transistors and solar cells on flexible substrates. <i>Solar Energy</i> , 2006 , 80, 687-693	6.8	113
83	Effect of contact angle hysteresis on thermocapillary droplet actuation. <i>Journal of Applied Physics</i> , 2005 , 97, 014906	2.5	105
82	P-24: High-Temperature (250°C) Amorphous-Silicon TFTs On Clear Plastic Substrates. <i>Digest of Technical Papers SID International Symposium</i> , 2005 , 36, 313	0.5	5
81	Mechanics of TFT Technology on Flexible Substrates 2005 , 263-283		38
80	Micromechanics of macroelectronics. <i>Particuology: Science and Technology of Particles</i> , 2005 , 3, 321-328		44
79	Compliant thin film patterns of stiff materials as platforms for stretchable electronics. <i>Journal of Materials Research</i> , 2005 , 20, 3274-3277	2.5	140
78	Microfluidic detection and analysis by integration of thermocapillary actuation with a thin-film optical waveguide. <i>Applied Physics Letters</i> , 2005 , 86, 184101	3.4	17
77	Interconnects for Elastically Stretchable and Deformable Electronic Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 863, B10.9-1		
76	How Stretchable Can We Make Thin Metal Films?. <i>Materials Research Society Symposia Proceedings</i> , 2005 , 875, 1		7

75	Stretchability of thin metal films on elastomer substrates. <i>Applied Physics Letters</i> , 2004 , 85, 3435-3437	3.4	249
74	Stretchable wavy metal interconnects. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004 , 22, 1723-1725	2.9	133
73	Monolithically Integrated p- & n- Channel Thin Film Transistors of Nanocrystalline Silicon on Plastic Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 808, 281		4
72	Stretchability of complex patterns of thin metal conductors on elastomeric skin. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 854, U12.10.1		1
71	Hydrogen in Ultralow Temperature SiO ₂ for Nanocrystalline Silicon Thin Film Transistors. <i>Materials Research Society Symposia Proceedings</i> , 2004 , 814, 30		2
70	Electronic skin: architecture and components. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 25, 326-334	3	256
69	Capacitive sensing of droplets for microfluidic devices based on thermocapillary actuation. <i>Lab on a Chip</i> , 2004 , 4, 473-80	7.2	109
68	Evolution of nanocrystalline silicon thin film transistor channel layers. <i>Journal of Non-Crystalline Solids</i> , 2004 , 338-340, 720-724	3.9	38
67	Electrical Properties of Phosphorus-Doped and Boron-Doped Nanocrystalline Germanium Thin-Films for p-i-n Devices. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 762, 571		4
66	An Inverter Woven from Flat Component Fibers for e-Textile Applications. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 769, 9101		4
65	A Method for Making Elastic Metal Interconnects. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 769, 6121		8
64	Structural Evolution of Nanocrystalline Germanium Thin Films with Film Thickness and Substrate Temperature. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 762, 651		2
63	Evolution of Nanocrystalline Silicon Layers Deposited at 150°C for Thin Film Transistor Channels. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 769, 681		1
62	Thermocapillary Actuation of Liquids Using Patterned Microheater Arrays. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 773, 1031		4
61	Island Edge Coverage By Metal Interconnects for Three Dimensional Circuits. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 769, 1051		1
60	High hole and electron field effect mobilities in nanocrystalline silicon deposited at 150 °C. <i>Thin Solid Films</i> , 2003 , 427, 56-59	2.2	13
59	Silicon for thin-film transistors. <i>Thin Solid Films</i> , 2003 , 430, 15-19	2.2	86
58	Super-elastic Gold Conductors on Elastomeric Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 769, 1031		11

57	Stretchable gold conductors on elastomeric substrates. <i>Applied Physics Letters</i> , 2003 , 82, 2404-2406	3.4	733
56	Microfluidic actuation by modulation of surface stresses. <i>Applied Physics Letters</i> , 2003 , 82, 657-659	3.4	141
55	Resistance to cracking of a stretchable semiconductor: Speed of crack propagation for varying energy release rate. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 795, 463		
54	Polycrystalline Silicon Thin-Film Transistors on Flexible Steel Foil Substrates for Complementary-Metal-Oxide-Silicon Technology. <i>Solid State Phenomena</i> , 2003 , 93, 3-12	0.4	1
53	Stretchable conductors: thin gold films on silicone elastomer. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 795, 415		6
52	Photoresist-free printing of amorphous silicon thin-film transistors. <i>Applied Physics Letters</i> , 2003 , 83, 3207-3209	3.4	6
51	Hole and electron field-effect mobilities in nanocrystalline silicon deposited at 150 °C. <i>Applied Physics Letters</i> , 2002 , 80, 440-442	3.4	83
50	Generation of high-resolution surface temperature distributions. <i>Journal of Applied Physics</i> , 2002 , 91, 5686-5693	2.5	18
49	ELECTROTEXTILES: CONCEPTS AND CHALLENGES. <i>International Journal of High Speed Electronics and Systems</i> , 2002 , 12, 391-399	0.5	59
48	Direct printing of polymer microstructures on flat and spherical surfaces using a letterpress technique. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002 , 20, 2320		21
47	Spatially selective single-grain silicon films induced by hydrogen plasma seeding. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002 , 20, 818		2
46	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> , 2002 , 715, 1821		7
45	Amorphous Silicon Thin Film Transistors on Kapton Fibers. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 736, 1		7
44	Deformable interconnects for conformal integrated circuits. <i>Materials Research Society Symposia Proceedings</i> , 2002 , 736, 1		7
43	Amorphous silicon crystallization and polysilicon thin film transistors on SiO ₂ passivated steel foil substrates. <i>Applied Surface Science</i> , 2001 , 175-176, 753-758	6.7	4
42	Thermal oxide of polycrystalline silicon on steel foil as a thin-film transistor gate dielectric. <i>Applied Physics Letters</i> , 2001 , 78, 3729-3731	3.4	5
41	Physical mechanisms governing pattern fidelity in microscale offset printing. <i>Journal of Applied Physics</i> , 2001 , 90, 3602-3609	2.5	50
40	P-channel Polycrystalline Silicon Thin Film Transistors on Steel Foil Substrates. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 664, 1721		2

39	Nanocrystalline Silicon TFTs With 50 nm Thick Deposited Channel Layer, 10 cm ² /Vs Electron Mobility and 108 On/Off Current Ratio. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 664, 1751		2
38	High Electron Mobility TFTs of Nanocrystalline Silicon Deposited at 150°C on Plastic Foil. <i>Materials Research Society Symposia Proceedings</i> , 2001 , 664, 2611		5
37	Thin Film Transistors Made of Polysilicon Crystallized at 950°C on Steel Substrate. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 609, 2851		6
36	Thin Film Transistors with Electron Mobility of 40 cm ² /Vs Made from Directly Deposited Intrinsic Microcrystalline Silicon. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 609, 3121		3
35	Plastic Deformation of Thin Foil Substrates with Amorphous Silicon Islands into Spherical Shapes. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 621, 861		15
34	Offset Printing of Liquid Microstructures for High Resolution Lithography. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 624, 47		2
33	Selective dip-coating of chemically micropatterned surfaces. <i>Journal of Applied Physics</i> , 2000 , 88, 5119-5126		126
32	Morphology of liquid microstructures on chemically patterned surfaces. <i>Journal of Applied Physics</i> , 2000 , 87, 7768-7775	2.5	106
31	Using convective flow splitting for the direct printing of fine copper lines. <i>Applied Physics Letters</i> , 2000 , 77, 2063-2065	3.4	82
30	The effect of chlorine on dopant activation in hydrogenated amorphous silicon. <i>Applied Physics Letters</i> , 2000 , 76, 2949-2951	3.4	6
29	Amorphous silicon transistors on ultrathin steel foil substrates. <i>Applied Physics Letters</i> , 1999 , 74, 2661-2662	3.4	39
28	Inverter made of complementary p and n channel transistors using a single directly deposited microcrystalline silicon film. <i>Applied Physics Letters</i> , 1999 , 75, 1125-1127	3.4	59
27	High electron mobility polycrystalline silicon thin-film transistors on steel foil substrates. <i>Applied Physics Letters</i> , 1999 , 75, 2244-2246	3.4	52
26	Effects of Chlorine on Dopant Activation in a-Si:H. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 557, 409		
25	a-Si TFTs on Thin Steel Foil Substrates: How Thin Can We Go?. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 558, 381		
24	Fast growth of hydrogenated amorphous silicon from dichlorosilane. <i>Applied Physics Letters</i> , 1994 , 65, 1940-1942	3.4	25
23	A comprehensive defect model for amorphous silicon. <i>Journal of Applied Physics</i> , 1992 , 72, 2857-2872	2.5	53
22	Kinetics of Growth and Recovery of Light-Induced Defects Under High-Intensity Illumination. <i>Materials Research Society Symposia Proceedings</i> , 1992 , 258, 473		6

21	The Distribution of Occupied Deep Levels in a-Si:H Determined from CPM Spectra. <i>Materials Research Society Symposia Proceedings</i> , 1991 , 219, 611		8
20	Thermal Equilibration Between Band Tail and Near Surface Defect States in Hydrogenated Amorphous Silicon and Silicon-Germanium Alloys. <i>Materials Research Society Symposia Proceedings</i> , 1990 , 192, 195		
19	Temperature-dependent nuclear magnetic resonance in CuInX ₂ (X=S,Se,Te) chalcopyrite-structure compounds. <i>Physical Review B</i> , 1983 , 27, 5240-5249	3.3	59
18	Physico-Chemical Problems in Photovoltaic Research. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1980 , 84, 991-995		2
17	Preparation of P-type indium phosphide films by close space vapor transport. <i>Materials Research Bulletin</i> , 1978 , 13, 1455-1460	5.1	
16	n-CdS/n-GaAs voltage-enhanced photoanode. <i>Applied Physics Letters</i> , 1977 , 31, 446-447	3.4	17
15	Chemistry and preparation of InP/CdS solar cells. <i>Journal of Crystal Growth</i> , 1977 , 39, 128-136	1.6	20
14	Multicomponent tetrahedral compounds for solar cells. <i>Journal of Crystal Growth</i> , 1977 , 39, 151-159	1.6	85
13	Motion of p-n junctions in CuInSe ₂ . <i>Applied Physics Letters</i> , 1976 , 28, 454-455	3.4	35
12	Preparation and properties of InP/CdS solar cells. <i>Journal of Applied Physics</i> , 1976 , 47, 614-618	2.5	35
11	Heterojunction band discontinuities. <i>Applied Physics Letters</i> , 1976 , 28, 31-33	3.4	65
10	Electroluminescent p-InP/n-CdS heterodiodes. <i>Applied Physics Letters</i> , 1976 , 29, 431-432	3.4	3
9	Epitaxy in solar cells. <i>Journal of Crystal Growth</i> , 1975 , 31, 113-121	1.6	7
8	p-InP/n-CdS solar cells and photovoltaic detectors. <i>Applied Physics Letters</i> , 1975 , 26, 229-230	3.4	98
7	Analysis of the electrical and luminescent properties of CuInSe ₂ . <i>Journal of Applied Physics</i> , 1975 , 46, 1777-1782	2.5	145
6	Efficient CuInSe ₂ /CdS solar cells. <i>Applied Physics Letters</i> , 1975 , 27, 89-90	3.4	242
5	EPITAXY IN SOLAR CELLS 1975 , 113-121		1
4	CuInSe ₂ /CdS heterojunction photovoltaic detectors. <i>Applied Physics Letters</i> , 1974 , 25, 434-435	3.4	327

3	Preparation and properties of green-light-emitting CdS _{0.5} TuGaS ₂ heterodiodes. <i>Journal of Applied Physics</i> , 1974 , 45, 246-251	2.5	51
2	Green electroluminescence from CdS _{0.5} TuGaS ₂ heterodiodes. <i>Applied Physics Letters</i> , 1973 , 22, 351-353	3.4	77
1	Diffusion of Boron from Shallow Ion Implants in Silicon. <i>Journal of the Electrochemical Society</i> , 1972 , 119, 1570	3.9	66