

Yongtaek Hong

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.

138 papers	3,096 citations	31 h-index	51 g-index
156 ext. papers	3,621 ext. citations	5.8 avg, IF	5.2 L-index

#	Paper	IF	Citations
138	Enhanced current path by circularly and periodically-aligned semiconducting single-walled carbon nanotubes for logic circuit device. <i>Flexible and Printed Electronics</i> , 2022 , 7, 015005	3.1	0
137	Stretchable PPG sensor with light polarization for physical activity-permissible monitoring.. <i>Science Advances</i> , 2022 , 8, eabm3622	14.3	5
136	Electronic Skin Based on a Cellulose/Carbon Nanotube Fiber Network for Large-Area 3D Touch and Real-Time 3D Surface Scanning. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	5
135	Underwater maneuvering of robotic sheets through buoyancy-mediated active flutter. <i>Science Robotics</i> , 2021 , 6,	18.6	3
134	3D printing-based mirrored image component for seamless modular curved-edge displays. <i>Optics Express</i> , 2021 , 29, 14745-14756	3.3	
133	Standalone real-time health monitoring patch based on a stretchable organic optoelectronic system. <i>Science Advances</i> , 2021 , 7,	14.3	40
132	Stamp-Perforation-Inspired Micronotch for Selectively Tearing Fiber-Bridged Carbon Nanotube Thin Films and Its Applications for Strain Classification. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32307-32315	9.5	0
131	New Design Topology of High-Q Factor Printed Antenna having Unequal Width and Pitch used for Near-field Wireless Power Transmission. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 1-1	5.6	0
130	Inkjet-Printing-Based Density Profile Engineering of Single-Walled Carbon Nanotube Networks for Conformable High-On/Off-Performance Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 43163-43173	9.5	2
129	Distortion-Free Stretchable Light-Emitting Diodes via Imperceptible Microwrinkles. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000231	6.8	13
128	Selective crack formation on stretchable silver nano-particle based thin films for customized and integrated strain-sensing system. <i>Thin Solid Films</i> , 2020 , 707, 138068	2.2	5
127	Tunable Stability of All-Inkjet-Printed Double-Gate Carbon Nanotube Thin Film Transistors. <i>IEEE Electron Device Letters</i> , 2020 , 41, 860-863	4.4	4
126	Silver Nanowire Patterning: Highly Customizable Transparent Silver Nanowire Patterning via Inkjet-Printed Conductive Polymer Templates Formed on Various Surfaces (Adv. Mater. Technol. 6/2020). <i>Advanced Materials Technologies</i> , 2020 , 5, 2070036	6.8	1
125	Fluoroelastomer encapsulation for enhanced reliability of solution-processed carbon nanotube thin-film transistors. <i>Thin Solid Films</i> , 2020 , 704, 138021	2.2	4
124	Highly Customizable Transparent Silver Nanowire Patterning via Inkjet-Printed Conductive Polymer Templates Formed on Various Surfaces. <i>Advanced Materials Technologies</i> , 2020 , 5, 2000042	6.8	21
123	Multidipping Technique for Fabrication Time Reduction and Performance Improvement of Solution-Processed Single-Walled Carbon Nanotube Thin-Film Transistors. <i>Advanced Engineering Materials</i> , 2020 , 22, 1901413	3.5	6
122	Ultraflexible and transparent electroluminescent skin for real-time and super-resolution imaging of pressure distribution. <i>Nature Communications</i> , 2020 , 11, 663	17.4	58

121	Effects of lithium doping and ultraviolet photo-patterning on electrical properties of InGaZnO thin film transistors. <i>Thin Solid Films</i> , 2020 , 707, 138098	2.2	3
120	Network Structure Modification-Enabled Hybrid Polymer Dielectric Film with Zirconia for the Stretchable Transistor Applications. <i>Advanced Functional Materials</i> , 2020 , 30, 1906647	15.6	15
119	Stretchable strain-tolerant soft printed circuit board: a systematic approach for the design rules of stretchable interconnects. <i>Journal of Information Display</i> , 2020 , 21, 41-47	4.1	9
118	Improved Long-Term Stability of Low-Temperature Polysilicon Thin-Film Transistors by Using a Tandem Gate Insulator with an Atomic Layer of Deposited Silicon Dioxide. <i>Journal of the Korean Physical Society</i> , 2020 , 77, 277-281	0.6	1
117	P-187: Micro-Patternable AgNW-PEDOT:PSS Hybrid Electrodes for All-Solution-Processed Polymer Light-Emitting Diodes. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 2075-2078	0.5	
116	Stretchable Electronics: Distortion-Free Stretchable Light-Emitting Diodes via Imperceptible Microwrinkles (Adv. Mater. Technol. 9/2020). <i>Advanced Materials Technologies</i> , 2020 , 5, 2070057	6.8	1
115	High-performance compliant thermoelectric generators with magnetically self-assembled soft heat conductors for self-powered wearable electronics. <i>Nature Communications</i> , 2020 , 11, 5948	17.4	67
114	P-116: Soft and Reconfigurable Wearable LED Display Using Soft Modular Blocks. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 1808-1810	0.5	
113	2-D Strain Sensors Implemented on Asymmetrically Bi-Axially Pre-Strained PDMS for Selectively Switching Stretchable Light-Emitting Device Arrays. <i>IEEE Sensors Journal</i> , 2020 , 20, 14655-14661	4	2
112	Dense Assembly of Finely Patterned Semiconducting Single-Walled Carbon Nanotubes via a Selective Transfer Method of Nanotube-Attracting Layers. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38441-38450	9.5	4
111	P-189: Late-News-Poster: In-situ Selective UV-O3 based Facile Patterning Method of Random SWCNT Networks for Solution-processed SWCNT TFT and Circuit Application. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 2113-2116	0.5	
110	P-190: Late-News-Poster: Micrometer-scale Patterning of Self-assembled SWCNT Films and Thin-Film Transistors Using Patterned PLL Layer. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 2117-2120	0.5	
109	Enhanced Charge Injection Properties of Organic Field-Effect Transistor by Molecular Implantation Doping. <i>Advanced Materials</i> , 2019 , 31, e1806697	24	41
108	Highly Customizable All Solution-Processed Polymer Light Emitting Diodes with Inkjet Printed Ag and Transfer Printed Conductive Polymer Electrodes. <i>Advanced Functional Materials</i> , 2019 , 29, 1902412	15.6	28
107	P-67: Printed Reflective Sloped Wall for Enhancing Luminance of Color Conversion Light Source. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 1485-1487	0.5	
106	P-29: Solution-processed Single-walled Carbon Nanotube Thin Film Transistors In-situ Patterned by Inkjet-printing of Surface Treatment Material. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 1321-1324	0.5	3
105	Organic Field-Effect Transistors: Enhanced Charge Injection Properties of Organic Field-Effect Transistor by Molecular Implantation Doping (Adv. Mater. 10/2019). <i>Advanced Materials</i> , 2019 , 31, 1970073	24	2
104	Soft Modular Electronic Blocks (SMEBs): A Strategy for Tailored Wearable Health-Monitoring Systems. <i>Advanced Science</i> , 2019 , 6, 1801682	13.6	19

103	24.3: Invited Paper: Printed Electrodes for All-Solution-Processed Inverted-Structure OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2019 , 50, 242-242	0.5	
102	Measurement of finger joint angle using stretchable carbon nanotube strain sensor. <i>PLoS ONE</i> , 2019 , 14, e0225164	3.7	12
101	Crack propagation design in transparent polymeric conductive films via carbon nanotube fiber-reinforcement and its application for highly sensitive and mechanically durable strain sensors. <i>Smart Materials and Structures</i> , 2019 , 28, 025008	3.4	9
100	Highly efficient solution-processed inverted polymer light emitting diodes with uniformly coated poly(3,4-ethylenedioxythiophene):poly(styrene-sulfonate) layers on a hydrophobic emission layer using a dilution method. <i>Thin Solid Films</i> , 2018 , 660, 782-788	2.2	3
99	Two-Dimensional Thickness-Dependent Avalanche Breakdown Phenomena in MoS Field-Effect Transistors under High Electric Fields. <i>ACS Nano</i> , 2018 , 12, 7109-7116	16.7	22
98	Printed cylindrical lens pair for application to the seam concealment in tiled displays. <i>Optics Express</i> , 2018 , 26, 824-834	3.3	4
97	Artificial Soft Elastic Media with Periodic Hard Inclusions for Tailoring Strain-Sensitive Thin-Film Responses. <i>Advanced Materials</i> , 2018 , 30, e1802190	24	4
96	P-214: Late-News Poster: Stretchable Active-Matrix Light-Emitting Diode Array Using Printed Electric Components on Plastic and Elastomer Hybrid Substrate. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 1925-1927	0.5	3
95	Stretchable Electronics: Highly Reliable Liquid Metal/Solid Metal Contacts with a Corrugated Single-Walled Carbon Nanotube Diffusion Barrier for Stretchable Electronics (Adv. Funct. Mater. 51/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870361	15.6	
94	Stable Logic Operation of Fiber-Based Single-Walled Carbon Nanotube Transistor Circuits Toward Thread-Like CMOS Circuitry. <i>Materials</i> , 2018 , 11,	3.5	4
93	Thin Films: Artificial Soft Elastic Media with Periodic Hard Inclusions for Tailoring Strain-Sensitive Thin-Film Responses (Adv. Mater. 40/2018). <i>Advanced Materials</i> , 2018 , 30, 1870304	24	
92	Highly Reliable Liquid Metal/Solid Metal Contacts with a Corrugated Single-Walled Carbon Nanotube Diffusion Barrier for Stretchable Electronics. <i>Advanced Functional Materials</i> , 2018 , 28, 1806014	15.6	17
91	Electronic skins for soft, compact, reversible assembly of wirelessly activated fully soft robots. <i>Science Robotics</i> , 2018 , 3,	18.6	104
90	38-2: Invited Paper: Strain-engineered Platform Technology for Stretchable Hybrid Electronics. <i>Digest of Technical Papers SID International Symposium</i> , 2018 , 49, 483-485	0.5	1
89	Modulus-Gradient Conductive Core/Shell Structures Formed by Magnetic Self-Assembling and Printing Processes for Highly Stretchable Via Applications. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600517	6.4	11
88	One-Step Interface Engineering for All-Inkjet-Printed, All-Organic Components in Transparent, Flexible Transistors and Inverters: Polymer Binding. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 8819-8829	8.5	29
87	Thread-Like CMOS Logic Circuits Enabled by Reel-Processed Single-Walled Carbon Nanotube Transistors via Selective Doping. <i>Advanced Materials</i> , 2017 , 29, 1701822	24	30
86	19-3: Invited Paper: Key Enabling Technology for Stretchable LED Display and Electronic System. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 253-256	0.5	4

85	Accurate Defect Density-of-State Extraction Based on Back-Channel Surface Potential Measurement for Solution-Processed Metal-Oxide Thin-Film Transistors. <i>IEEE Transactions on Electron Devices</i> , 2017 , 64, 1683-1688	2.9	7
84	Fully printable, strain-engineered electronic wrap for customizable soft electronics. <i>Scientific Reports</i> , 2017 , 7, 45328	4.9	38
83	Highly Sensitive and Bendable Capacitive Pressure Sensor and Its Application to 1 V Operation Pressure-Sensitive Transistor. <i>Advanced Electronic Materials</i> , 2017 , 3, 1600455	6.4	57
82	Efficient Surface Treatment to Improve Contact Properties of Inkjet-Printed Short-Channel Organic Thin-Film Transistors. <i>Journal of Nanoscience and Nanotechnology</i> , 2017 , 17, 5718-5721	1.3	7
81	Transparent Large-Area MoS Phototransistors with Inkjet-Printed Components on Flexible Platforms. <i>ACS Nano</i> , 2017 , 11, 10273-10280	16.7	49
80	A Single Droplet-Printed Double-Side Universal Soft Electronic Platform for Highly Integrated Stretchable Hybrid Electronics. <i>Advanced Functional Materials</i> , 2017 , 27, 1701912	15.6	31
79	F-number matching method in light field microscopy using an elastic micro lens array. <i>Optics Letters</i> , 2016 , 41, 2751-4	3	7
78	Revisit to three-dimensional percolation theory: Accurate analysis for highly stretchable conductive composite materials. <i>Scientific Reports</i> , 2016 , 6, 34632	4.9	16
77	The rapid and dense assembly of solution-processed single-wall carbon nanotube semiconducting films via an acid-based additive in the aqueous dispersion. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5461-5468 ¹⁵	7.1	15
76	Elastomeric nanowire composite for flexible pressure sensors with tunable sensitivity. <i>Journal of Information Display</i> , 2016 , 17, 59-64	4.1	9
75	71-4: Illumination-Insensitive Mechanically Stable Transparent Flexible All-Ink-Jet-Printed Single-Walled Carbon-Nanotube TFTs. <i>Digest of Technical Papers SID International Symposium</i> , 2016 , 47, 962-965	0.5	
74	49-4L: Late-News Paper: All-Ink-Jet-Printed Wearable Information Display Directly Fabricated onto an Elastomeric Substrate. <i>Digest of Technical Papers SID International Symposium</i> , 2016 , 47, 672-675	0.5	1
73	Effective mobility enhancement of amorphous In-Ga-Zn-O thin-film transistors by holographically generated periodic conductor. <i>AIP Advances</i> , 2016 , 6, 085311	1.5	3
72	Fully inkjet-printed short-channel organic thin-film transistors and inverter arrays on flexible substrates. <i>Flexible and Printed Electronics</i> , 2016 , 1, 045003	3.1	14
71	Enhanced light outcoupling of polymer light-emitting diodes with a solution-processed, -flattening photonic-crystal underlayer. <i>Journal of Information Display</i> , 2016 , 17, 143-150	4.1	6
70	Effects of defect creation on bidirectional behavior with hump characteristics of InGaZnO TFTs under bias and thermal stress. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 03CB03	1.4	20
69	Tunable threshold voltage in solution-processed single-walled carbon nanotube thin-film transistors. <i>Current Applied Physics</i> , 2015 , 15, S8-S11	2.6	8
68	Large-area formation of self-aligned crystalline domains of organic semiconductors on transistor channels using CONNECT. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5561-6	11.5	55

67	Silver nanowire-embedded PDMS with a multiscale structure for a highly sensitive and robust flexible pressure sensor. <i>Nanoscale</i> , 2015 , 7, 6208-15	7.7	254
66	Selectively modulated inkjet printing of highly conductive and transparent foldable polymer electrodes for flexible polymer light-emitting diode applications. <i>Organic Electronics</i> , 2015 , 19, 147-156	3.5	25
65	Negatively strain-dependent electrical resistance of magnetically arranged nickel composites: application to highly stretchable electrodes and stretchable lighting devices. <i>Advanced Materials</i> , 2014 , 26, 3094-9	24	45
64	Inkjet-printed stretchable single-walled carbon nanotube electrodes with excellent mechanical properties. <i>Applied Physics Letters</i> , 2014 , 104, 113103	3.4	50
63	High-performance polymer light emitting diodes with interface-engineered graphene anodes. <i>Organic Electronics</i> , 2013 , 14, 2324-2330	3.5	28
62	Flexible High-Performance All-Inkjet-Printed Inverters: Organo-Compatible and Stable Interface Engineering (Adv. Mater. 34/2013). <i>Advanced Materials</i> , 2013 , 25, 4772-4772	24	3
61	Lateral-crack-free, buckled, inkjet-printed silver electrodes on highly pre-stretched elastomeric substrates. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 105305	3	54
60	Synthesis and characterization of thermally crosslinkable hole-transporting polymers for PLEDs. <i>Journal of Polymer Science Part A</i> , 2013 , 51, 5111-5117	2.5	7
59	Flexible high-performance all-inkjet-printed inverters: organo-compatible and stable interface engineering. <i>Advanced Materials</i> , 2013 , 25, 4773-7	24	49
58	. <i>IEEE Transactions on Electron Devices</i> , 2012 , 59, 710-714	2.9	55
57	Role of tunneling layer in graphene-oxide based organic nonvolatile memory transistors. <i>Organic Electronics</i> , 2012 , 13, 2887-2892	3.5	19
56	Contact Resistance of Inkjet-Printed Silver Source/Drain Electrodes in Bottom-Contact OTFTs. <i>Journal of Display Technology</i> , 2012 , 8, 48-53		27
55	Solution processed polymer light-emitting diodes with single layer graphene anode 2012 ,		2
54	Side-chain effects on phenothiazine-based donor-acceptor copolymer properties in organic photovoltaic devices. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 649-658	2.5	17
53	Inkjet-printed SWCNT films for stretchable electrode and strain sensor applications 2012 ,		1
52	Energy harvesting by rotation of wheel for tire monitoring system 2012 ,		6
51	Frequency Dependency of Multi-layer OLED Current Density-voltage Shift and Its Application to Digitally-driven AMOLED. <i>Journal of the Optical Society of Korea</i> , 2012 , 16, 181-184		1
50	All-Inkjet-Printed Organic Thin-Film Transistor Inverter on Flexible Plastic Substrate. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1134-1136	4.4	137

49	Inkjet-printed stretchable silver electrode on wave structured elastomeric substrate. <i>Applied Physics Letters</i> , 2011 , 98, 153110	3.4	84
48	Synthesis and properties of phenothiazylene vinylene and bithiophene-based copolymers for organic thin film transistors. <i>Synthetic Metals</i> , 2011 , 161, 72-78	3.6	11
47	P-122: Solution-processed Organic/Inorganic Hybrid CMOS-type Inverter. <i>Digest of Technical Papers SID International Symposium</i> , 2011 , 42, 1563-1566	0.5	4
46	Holography and plasma oxidation for uniform nanoscale two dimensional channel formation of vertical organic field-effect transistors with suppressed gate leakage current. <i>Organic Electronics</i> , 2011 , 12, 1841-1845	3.5	6
45	Electrical-Stress-Induced Threshold Voltage Instability in Solution-Processed ZnO Thin-Film Transistors: An Experimental and Simulation Study. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 1995-2002	2.9	32
44	Self-Defined Short Channel Formation With Micromolded Separator and Inkjet-Printed Source/Drain Electrodes in OTFTs. <i>IEEE Electron Device Letters</i> , 2011 , 32, 1758-1760	4.4	13
43	Vertical organic field-effect transistor array fabrication based on laser holography lithography process 2011 ,		1
42	P-114: Investigation of TIPS-pentacene on Inkjet-Printed Silver Source/Drain Electrodes. <i>Digest of Technical Papers SID International Symposium</i> , 2011 , 42, 1535-1538	0.5	1
41	Solution-processable zinc oxide for the polymer solar cell based on P3HT:PCBM. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 5995-6000	1.3	13
40	All-Inkjet-Printed Organic Thin-Film Transistors with Silver Gate, Source/Drain Electrodes. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 03CB05	1.4	16
39	All-Inkjet-Printed Organic Thin-Film Transistors with Silver Gate, Source/Drain Electrodes. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 03CB05	1.4	24
38	Gate Overlap Optimization and Performance Variation for Thin-Film Transistors with Source/Drain Edge Waviness. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 036501	1.4	10
37	Zinc concentration dependence study of solution processed amorphous indium gallium zinc oxide thin film transistors using high-k dielectric. <i>Applied Physics Letters</i> , 2010 , 97, 183504	3.4	65
36	High-performance organic charge trap flash memory devices based on ink-jet printed 6,13-bis(triisopropylsilyl)ethynyl pentacene transistors. <i>Applied Physics Letters</i> , 2010 , 96, 213107	3.4	25
35	Frequency Performance Optimization of Flexible Pentacene Rectifier by Varying the Thickness of Active Layer. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 05EB07	1.4	3
34	Stretchable Low Resistance Thick Silver Electrode on Poly(dimethylsiloxane) Compliant Elastomeric Substrate. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 05EB09	1.4	4
33	Quantitative evaluation of image sticking on displays with different gradual luminous variation. <i>Journal of the Society for Information Display</i> , 2010 , 18, 228	2.1	
32	Meyer-Neldel Rule and Extraction of Density of States in Amorphous Indium-Gallium-Zinc-Oxide Thin-Film Transistor by Considering Surface Band Bending. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 03CB02	1.4	48

31	77.2: Invited Paper: Technical Issues Towards All Inkjet-Printed Organic Thin-Film Transistors. <i>Digest of Technical Papers SID International Symposium</i> , 2010 , 41, 1147	0.5	4
30	Understanding the effect of semiconductor thickness on device characteristics in organic thin film transistors by way of two-dimensional simulations. <i>Organic Electronics</i> , 2010 , 11, 127-136	3.5	36
29	Synthesis and properties of phenothiazylene vinylene-based polymers: New organic semiconductors for field-effect transistors and solar cells. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 635-646	2.5	19
28	Performance of top-gate thin film transistors with solution processed ZnO channel layer and PVP gate dielectric. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2010 , 207, 1664-1667	1.6	9
27	Characteristics of Inverters Using Pentacene Organic Thin Film Transistors with Printed Ag Electrodes. <i>Molecular Crystals and Liquid Crystals</i> , 2009 , 513, 262-267	0.5	3
26	A New Thin-Film Transistor Pixel Structure Suppressing the Leakage Current Effects on AMOLED. <i>IEEE Electron Device Letters</i> , 2009 , 30, 240-242	4.4	9
25	Effects of Li doping on the performance and environmental stability of solution processed ZnO thin film transistors. <i>Applied Physics Letters</i> , 2009 , 95, 193503	3.4	59
24	Effect of Electrode Area on High Speed Characteristics over 1 MHz of Poly(3-hexylthiophene-2,5-diyl) Diode with Inkjet-Printed Ag Electrode. <i>Molecular Crystals and Liquid Crystals</i> , 2009 , 513, 256-261	0.5	6
23	Effect of the plasma-assisted patterning of the organic layers on the performance of organic light-emitting diodes. <i>Journal of Information Display</i> , 2009 , 10, 111-116	4.1	1
22	Stable Stretchable Silver Electrode Directly Deposited on Wavy Elastomeric Substrate. <i>IEEE Electron Device Letters</i> , 2009 , 30, 1284-1286	4.4	32
21	Guest Editorial Special Issue on Transparent Electronics. <i>Journal of Display Technology</i> , 2009 , 5, 429-430		1
20	Review of manufacturing processes for soft biomimetic robots. <i>International Journal of Precision Engineering and Manufacturing</i> , 2009 , 10, 171-181	1.7	182
19	Frequency analysis on poly(3-hexylthiophene) rectifier using impedance spectroscopy. <i>Thin Solid Films</i> , 2009 , 518, 889-892	2.2	22
18	Substrate thermal conductivity effect on heat dissipation and lifetime improvement of organic light-emitting diodes. <i>Applied Physics Letters</i> , 2009 , 94, 253302	3.4	89
17	MOSFET-Like Behavior of a-InGaZnO Thin-Film Transistors With Plasma-Exposed Source/Drain Bulk Region. <i>Journal of Display Technology</i> , 2009 , 5, 495-500		41
16	Spin-coated Ga-doped ZnO transparent conducting thin films for organic light-emitting diodes. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 035102	3	146
15	Spin-coated Ga-doped ZnO transparent conducting thin films for organic light-emitting diodes. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 139801-139801	3	18
14	All-solution-processed bottom-gate organic thin-film transistor with improved subthreshold behaviour using functionalized pentacene active layer. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 115107		50

13	Carrier conduction mechanism for phosphorescent material doped organic semiconductor. <i>Journal of Applied Physics</i> , 2009 , 105, 033709	2.5	42
12	P-188L: Late-News Poster: Quantification of Image Sticking for Images with Different Long-Range Non-Uniformity. <i>Digest of Technical Papers SID International Symposium</i> , 2009 , 40, 1386	0.5	1
11	Inkjet-Printed Silver Gate Electrode and Organic Dielectric Materials for Bottom-Gate Pentacene Thin-Film Transistors. <i>Journal of the Korean Physical Society</i> , 2009 , 54, 518-522	0.6	20
10	P-8: A New Hybrid Analog-Digital Driving Method to Improve AMOLED Lifetime. <i>Digest of Technical Papers SID International Symposium</i> , 2008 , 39, 1196	0.5	5
9	Modeling of Printed Wavy Edge Patterns in TFT Channel Area. <i>Conference Proceedings - Lasers and Electro-Optics Society Annual Meeting-LEOS</i> , 2007 ,		1
8	Opto-electronic properties of poly (fluorene) co-polymer red light-emitting devices on flexible plastic substrate. <i>IEEE Transactions on Electron Devices</i> , 2004 , 51, 1562-1569	2.9	15
7	Transparent flexible plastic substrates for organic light-emitting devices. <i>Journal of Electronic Materials</i> , 2004 , 33, 312-320	1.9	32
6	Amorphous silicon TFT-based active-matrix organic polymer LEDs. <i>IEEE Electron Device Letters</i> , 2003 , 24, 451-453	4.4	8
5	Integrating sphere charge coupled device-based measurement method for organic light-emitting devices. <i>Review of Scientific Instruments</i> , 2003 , 74, 3572-3575	1.7	11
4	Optoelectrical properties of four amorphous silicon thin-film transistors 200 dpi active-matrix organic polymer light-emitting display. <i>Applied Physics Letters</i> , 2003 , 83, 3233-3235	3.4	12
3	Air-stable organic polymer red light-emitting devices on flexible plastic substrates 2002 ,		4
2	Materials and device structures for high-performance poly OLEDs on flexible plastic substrates 2001 , 4105, 356		3
1	Stretchable hybrid electronics: combining rigid electronic devices with stretchable interconnects into high-performance on-skin electronics. <i>Journal of Information Display</i> , 1-22	4.1	0